

Quantifying Glaucoma Progression in Imaging and Visual Fields

Progression analysis has become a central diagnostic concern in the management of glaucoma with treatment decisions contingent on the assessment of progression in both structure and function. The progression theme featured prominently for the first time at the American Academy of Ophthalmology meeting in Las Vegas, as evidenced by the strong attendance at several seminars and theater presentations throughout the AAO meeting.

At the AAO meeting, Carl Zeiss Meditec demonstrated its industry leadership in progression. It has pioneered the development of progression analysis for 20 years with GPA for HFA. The company is now applying that expertise to Stratus OCT and GDx. Carl Zeiss Meditec hosted a Sunday morning educational program, *Quantifying Glaucoma Progression in Imaging and Visual Fields*, which attracted 300 participants to a standing-room-only event.

GPA progression tools from Carl Zeiss Meditec bring clinical value because they not only help to streamline decision making but they serve to individualize patient care. These tools help the doctor triage glaucoma patients and differentiate:

- Those who are stable and probably require no change in therapy
- Those who are progressing slowly and might benefit from a therapeutic change
- Those who are progressing rapidly and urgently need very aggressive treatment

Dr. Robert Weinreb moderated the seminar with panel presentations on imaging and visual field progression tools by Dr. Don Budenz and Dr. Joel Schuman. Dr. Weinreb also presented recent developments on his work in the area of the glaucoma progression algorithm on the GDx. The program closed with a spirited question and answer session. The expert speakers and relevant subject matter all contributed to a stimulating and thought-provoking event.

The success of this educational program demonstrates the clinical importance of progression applications for structure and function. Carl Zeiss Meditec is dedicated to developing combined analysis of structure and function with evolving mathematical models.

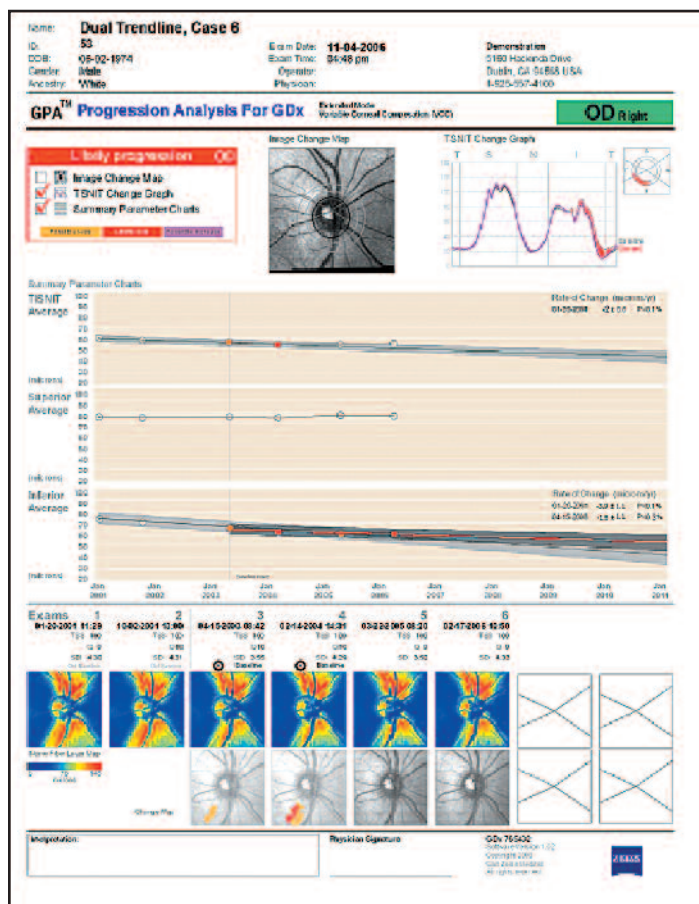


Figure 1 GDx printout for progression tool under development. The progression tool features three independent algorithms designed to assess various types of RNFL defects.

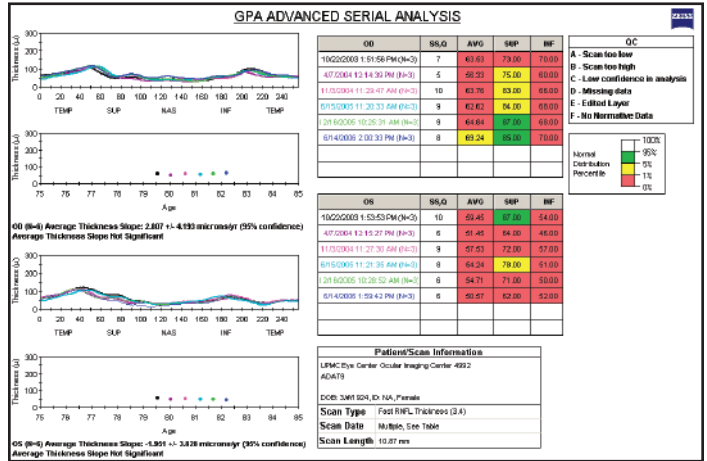
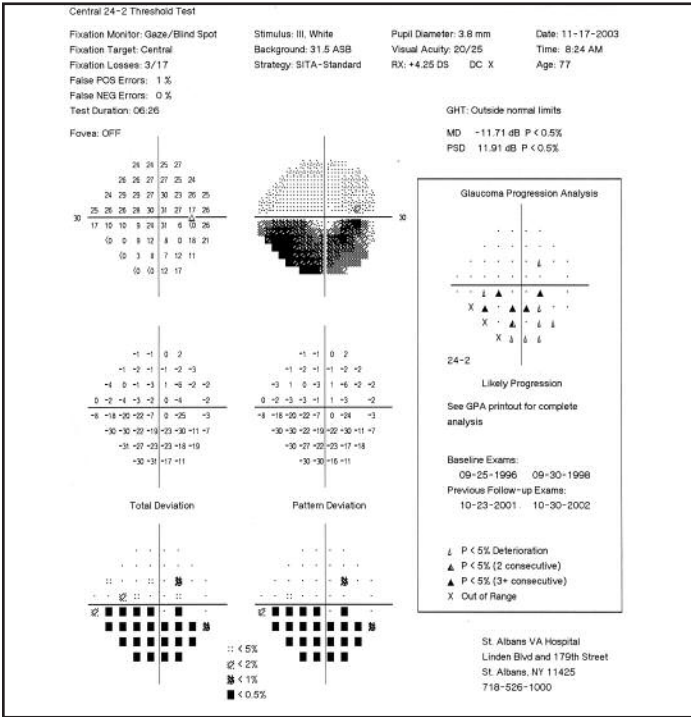


Figure 2a (top left) An example of a report with the currently marketed GPA for HFA.

Figure 2b (bottom left) An example of a printout of the next generation progression tool of GPA for HFA. It offers a new single page printout format that displays both baseline and current exams and includes an improved metric for visual field loss – the Visual Field Index.

Figure 3 (top right) A printout of a Stratus OCT Advanced Serial Analysis report (under development). It compares recent RNFL scans to past scans in a single page summary format.

