

Carl Zeiss Meditec Announces New Dry AMD and Glaucoma Clinical Applications for Cirrus HD-OCT

Carl Zeiss Meditec announced it has added new dry age-related macular degeneration (AMD) and new glaucoma diagnostic tools for Cirrus™ HD-OCT. The new Cirrus HD-OCT software version 6.0 received clearance from the US Food and Drug Administration (FDA) today.

The new Cirrus HD-OCT retina application provides Advanced Retinal Pigment Epithelium (RPE) Analysis, which enables clinicians to objectively monitor changes associated with dry AMD. The application tracks change in RPE elevation area and volume often associated with drusen. It also identifies and measures the area of transparent regions in the RPE that can develop with geographic atrophy. Unlike blue light fundus autofluorescence (FAF), Cirrus measurements are not affected by macular pigment in the fovea and provide an objective assessment of geographic atrophy status as part of a standard OCT exam.

Further expanding Carl Zeiss Meditec's retina workplace, the Cirrus HD-OCT application package also includes Enhanced Depth Imaging (EDI), which allows for better visualization of deeper tissues, such as the choroid, enabling doctors to better understand the role of this anatomy in retinal disease.

"The new integrated RPE Analysis software now offers clinicians the opportunity to objectively analyze all stages of AMD, especially the progression of dry AMD. Now one imaging technique, the Cirrus HD-OCT, can quantitate drusen and geographic atrophy, as well as choroidal neovascularization (CNV) and any elevation of the RPE associated with wet AMD," said Dr. Philip J. Rosenfeld, Professor of Ophthalmology at the Bascom Palmer Eye Institute and collaborator with Carl Zeiss Meditec in developing the techniques

underlying the new applications. "Now we don't have to move patients between different instruments to visualize drusen, geographic atrophy, and CNV. These analyses will help clinicians stage and monitor disease progression today and will be critical to managing response to therapy as new treatments come to market."

The new Cirrus HD-OCT application package also extends Carl Zeiss Meditec's comprehensive suite of glaucoma diagnostic tools, adding new Ganglion Cell Analysis and Optic Nerve Head Progression Analysis. The Ganglion Cell Analysis evaluates the thickness of the combined ganglion cell and inner plexiform layers and compares the results to normative data. The new software package also expands Guided Progression Analysis™ (GPA™) to automatically track progression of average cup-to-disc ratio and other optic nerve head parameters.

With these new clinical applications, Cirrus HD-OCT now spans the full spectrum of visualization and structural assessment in glaucoma: angle assessment, central corneal thickness measurement and analyses of retinal nerve fiber layer, ganglion cell layer and optic nerve head.

The new software package addresses a global market by adding user interfaces in Japanese, Chinese, Korean, German, French, Italian and Spanish to the original English interface. The software received its CE mark for distribution to major European markets in November, 2011.

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