Results from a recent publication call for the use of consistent nomenclature when describing the field of view captured by retinal images.

The International Widefield Imaging Study Group has proposed the need for consistent nomenclature for widefield and ultra-widefield imaging based on normal anatomic landmarks. When describing the area captured by an imaging modality, it is important to be consistent in meaning so the capabilities of the technology are clear to the reader.

The panel defines ultra-widefield as images showing retinal anatomy anterior to the vortex vein ampullae in all four quadrants. Widefield is defined as an image centered on the fovea and includes the retina in all four quadrants posterior to and including the vortex vein ampullae. The panel recommends this standardized nomenclature for use in future publications.

Over the last decade, many large studies have underlined the importance of appropriately imaging the periphery to support the detection and management of disease in a variety of areas including: telemedicine screening, diabetic retinopathy, age-related macular degeneration, vascular disease, pediatric retinal disease, inflammatory disease, and even some systemic diseases. Consistently, optomap imaging has been demonstrated to capture the widest field of view in a single capture of any imaging technology.

“A single capture image which provides a view of the vortex veins in all four quadrants and beyond, thus meeting the widefield & ultra-widefield definitions, would offer enhanced efficiency in a real-world clinical setting versus a montage image, whether it be manual or automated.”

— Netan Choudhry M.D. FRCS(C) DABO

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The International Widefield Imaging Study Group, a panel of international retinal imaging experts, has proposed the need for consistent nomenclature for widefield and ultra-widefield imaging based on normal anatomic landmarks. The panel recommends this standardized nomenclature for use in future publications to clarify the capabilities of the technology so they are clear to the reader.

- The new consensus-defined terms help clarify the part of the retina visible in each image and how many images comprise the field of view. This information is important for clinicians assessing which technologies can meet their clinical and research needs. Capturing a larger field of view encompassing more of the retinal periphery is increasingly becoming clinically more important. Given the clinical significance, a clinician must understand the impact on the practice of obtaining those images.

- Following the agreement on retinal imaging terms, the group then reviewed 100 indocyanine green angiograms (ICGs) of both normal and pathological eyes obtained on the Optos California. While the consensus group was device agnostic, it was determined “that images from the Optos California most consistently provide a complete view of the vortex veins and retinal periphery without the need of a montage. Furthermore, the accuracy and precision of quantification of the images has been validated and published.” Optos California is the standard and most widely used ultra-widefield technology, therefore these images were used to calculate the posterior border of the vortex ampulla.

- optomap imaging has been demonstrated to capture the widest field of view in a single capture of any imaging technology: more than 50% additional retinal area captured versus one single-capture widefield lens based system\textsuperscript{14}, 110° more than a single capture widefield image and 65° more than the montaged ultra-widefield image from another lens based camera system\textsuperscript{16}, more vortex veins visualized\textsuperscript{15} and statistically significantly more retinal surface area\textsuperscript{12,18}.