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Advances in Clinical Management of Age-Related Macular Degeneration: From Precision Diagnosis to Novel Therapeutics

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Age-related macular degeneration (AMD) remains one of the leading causes of irreversible vision loss among older adults worldwide. Recent advances in retinal imaging, biomarker discovery, and targeted pharmacological therapies have significantly improved disease detection and treatment outcomes. This presentation reviews the latest developments in anti-VEGF therapy, complement inhibitors, sustained drug-delivery systems, and emerging gene therapies designed to preserve retinal function. The session also discusses advances in optical coherence tomography, artificial intelligence-assisted retinal screening, and individualized treatment protocols that enable clinicians to optimize patient care while reducing treatment burden. Future research directions include regenerative medicine, stem cell therapies, and precision ophthalmology aimed at preventing vision loss and improving long-term visual outcomes.

Biography

Emily Y. Chew is Director of the Division of Epidemiology and Clinical Applications at the National Eye Institute, National Institutes of Health, Bethesda, Maryland, USA. She is internationally recognized for leading landmark clinical studies on age-related macular degeneration, diabetic retinopathy, and retinal diseases.