

The Growing Role of AI in Retinal Diagnostics

Artificial intelligence has moved from a future concept to a genuinely useful tool in modern retinal care, particularly in analysing the vast amount of imaging data generated by tools like OCT scanning and retinal photography. AI systems can now assist in flagging early signs of conditions such as diabetic retinopathy and macular degeneration, sometimes detecting subtle patterns that might be easy to overlook during a busy clinical day. This does not mean AI replaces trained specialists. Rather, it acts as an additional layer of support, helping prioritise which scans need closer human review and potentially speeding up screening processes for large numbers of patients, particularly in diabetic retinopathy screening programmes where volume can be considerable. Ongoing research continues to refine these systems, with a strong focus on ensuring accuracy across diverse populations and integrating AI tools smoothly into existing clinical workflows rather than adding unnecessary complexity. For patients, the practical impact often shows up as faster screening turnaround times and, in some <https://www.medigy.com/news/blogs/specialized-eye-care-services-addressing-unique-vision-needs/> cases, earlier detection of changes that might otherwise have been caught only at a later, more advanced stage.