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**Queensland Eye Institute &  
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# Optical Coherence Tomography "OCT"

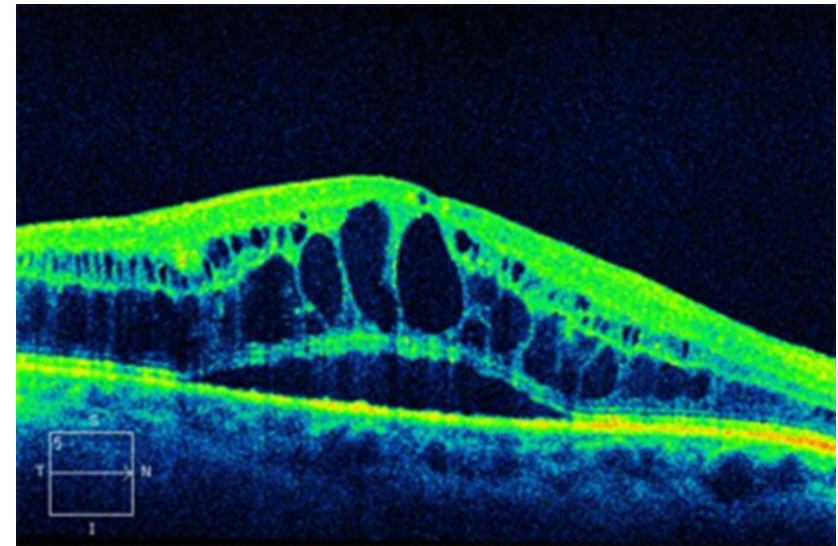


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## Optical Coherence Tomography “OCT”

OCT uses light that is reflected off the different layers of the retina to create an extremely high resolution image of the different structures of the eye. It allows a clear view of microscopic detail that can be compared to previous or future scans to look for changes. In the same way that a CT scan or an MRI produces cross-sectional images of other parts of the body, OCT produces similar images of the eye but in much higher detail. With the most sophisticated ultra-high resolution OCT machines, microscopic details can be seen so that diseases are detected and treated early.



(an OCT of macular oedema in diabetes)



When scanning the macular, OCT can detect and monitor potentially blinding diseases such as macular degeneration or diabetic retinopathy well before it can be detected by clinical examination. In glaucoma, OCT is used for analysing the thickness of the nerve fibre layer and the optic disc. This is an extremely sensitive way to detect early optic nerve damage in glaucoma before the damage has any effect on your vision.