

# New glaucoma test 15 times more likely to detect high risk patients

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The latest investigations into a promising new genetic test for glaucoma—the leading cause of blindness worldwide—has found it has the ability to identify 15 times more people at high risk of glaucoma than an existing genetic test.

The study, just published in *JAMA Ophthalmology*, builds on a long-running [international collaboration](#) between Flinders University and the QIMR Berghofer Medical Research Institute and other research partners around the world to identify genetic risk factors for [glaucoma](#). "Early diagnosis of glaucoma can lead to vision-saving treatment, and [genetic information](#) can potentially give us an edge in making early diagnoses, and better treatment decisions," says lead researcher Associate Professor Owen Siggs, from Flinders University in South Australia and the Garvan Institute of Medical Research in Sydney, NSW.

Senior author, Flinders University Professor Jamie Craig, says the latest research highlights the potential of the test in glaucoma screening and management.

"Genetic testing is not currently a routine part of glaucoma diagnosis and care, but this test has the potential to change that. We're now in a strong position to start testing this in clinical trials," says Professor Craig, a consulting ophthalmologist who also runs a in world-leading glaucoma research program at Flinders University, funded by Australia's NHMRC.

The latest results benchmarked the performance of [genetic testing](#) on 2507 Australian individuals with glaucoma, and 411,337 individuals with or without glaucoma in the UK.

One in 30 Australians will ultimately develop glaucoma, many of whom are diagnosed late due to lack of symptoms.

Once diagnosed, several treatment options can slow or halt the progression of glaucoma vision loss.

The new test, performed on a blood or saliva sample, has the potential to identify high-risk individuals before irreversible vision loss occurs.

Members of the research team are also launching a spin-out company to develop an accredited test for use in [clinical trials](#), with recruitment expected to begin in 2022.

**More information:** Association of monogenic and polygenic risk with the prevalence of open-angle glaucoma, *JAMA Ophthalmology* (2021).

Provided by Flinders University

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