



TeleMedC partners with the Aravind Institute to AI-Power the fight against eye disease

TeleMedC - an Australian health tech company, is partnering with India's Aravind eye care system as part of a critical response to improve accessibility to eye health services. Through a grant awarded by the Australia-India Strategic Research Fund (AISRF), TeleMedC's AI-driven diagnostic software, automated retinal imaging cameras and digital patient management system will be used to help meet an urgent need to diagnose and triage patients. India is embracing AI in the fight against eye diseases such as diabetic eye disease - an emerging preventable cause of blindness suffered by at least 5.6 million and predicted to rise exponentially by 2030.

Currently, eye health screenings can only be carried out by eye specialists and optometrists using expensive, specialised equipment. This means people living in rural and remote areas without access to eye care providers miss out on crucial diagnoses. To improve access to eye health checks, TeleMedC's range of AI-powered devices automate the screening of chronic eye diseases, including a diagnostic system called RetinoScan that can detect diabetic eye disease, glaucoma and age-related macular degeneration.

RetinoScan captures an image of the retina and uses machine learning to produce an accurate diagnosis within a matter of minutes. RetinoScan's ease of use allows eye health screening to be safely delegated to nurses in eye hospitals and clinics, without the need for dilating a patient's pupils. The software will be implemented in a few of Aravind's primary eye care centres throughout Southern India as part of a three-phase project in partnership with the Aravind Eye Care System. The project represents a breakthrough in hospital triaging, helping to streamline health services and reduce wait times in a country with a high rate of preventable blindness.

The AISRF supports collaboration between Australian and Indian researchers in strategically aligned scientific projects. Australia and India share common eye health priorities and face similar barriers to healthcare access in rural areas. The insight gained from the Aravind project will be mutually beneficial for India and Australia and will support the rollout of AI-based diagnostic technology in both countries.

About TeleMedC:

TeleMedC is a diagnostic imaging solutions company that uses sophisticated AI to diagnose chronic diseases of the eyes and provide low-cost screening and management. Our mission is to deploy portable hardware along with cloud-based software, worldwide. Our AI software is suitable for virtual medical consultations, screening, monitoring, and the prevention of sight-threatening and chronic diseases.

About Aravind Institute:

Aravind operates a growing network of eight hospitals in South India, where more than 350,000 eye surgeries are performed yearly. Since its inception, Aravind has handled more than 34 million outpatient visits and performed more than 4.3 million surgeries—60 per cent of which are subsidized or provided free to the poor. Revenue from paying clients makes the organization self-sustainable. Aravind's hospitals are supported by a network of specialty clinics, research laboratories, and manufacturing facilities. Mobile eye camps reach even the remotest villages.