

OrCamMyEye 2.0, A Dire Need to Revolutionize the Lives of Congenital or Acquired visually Impaired Patients in Pakistan

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I am writing to highlight the pressing issues in the management of congenital or acquired visually impaired patients, and to accentuate the dire need for an alternative approach and attitude towards their rehabilitation in Pakistan. To lessen the socio-emotional impacts and dependency of patients who are blind or visually impaired, as well as to improve their quality of life, ophthalmologists must pay close attention to the inadequate use of AI visual assistance systems and contemporary technology.¹

Visual impairment, whether congenital or acquired, impart numerous challenges to individuals and the society at large that included both psychosocial and physical.² Conventionally the management of these patients have focused on habituating patients to their visual impairment instead of encouraging modern approaches to lessen their dependency and overall sufferings. However, with the cutting edge technology, there is an immense hope to revolutionize the lives of these visually impaired individuals and worldwide efforts are being made to encourage the rehabilitation of these individuals.³⁻⁵

The “OrCamMyEye 2.0” is one such cutting-edge tool that shows promise for managing blind individuals. This AI-powered visual aid is intended to help those with vision impairments carry out their regular tasks. It comprises of a small processing unit attached to a lightweight camera that is worn as eyewear. The user may navigate their environment with increased comfort and freedom because to the device's ability to read text, recognize faces, identify items, and provide aural feedback.^{6,7}

The use of the OrCamMyEye gadget in the management of blind individuals has numerous advantages. First, by giving real-time audio cues, it improves their autonomy by helping them to read printed information, recognize objects, and identify

faces.⁷ This, to a very large extent, reduces their dependency on others for their routine activities and empower them to play significant role in the society.

Additionally, this technology has a favorable impact on ophthalmologists as well as patients' companions and attendants. Attendants of blind patients frequently shoulder the burden of helping with everyday tasks, which may be difficult on both their physical and mental well-being. By enabling visually impaired people to complete chores independently and relieving the stress on their careers, the OrCamMyEye lessens this burden. Ophthalmologists get advantages from using AI visual aid tools into their work as well. These tools make it easier to assess a patient's visual abilities accurately and objectively, assisting in treatment planning and tracking the development of visual rehabilitation.

In conclusion, a change in strategy and mindset is necessary for the care of congenital or acquired visually impaired individuals in Pakistan. The OrCamMyEye gadget offers a workable remedy for the drawbacks of traditional management techniques. By integrating this ground-breaking technology into clinical practice, we can improve blind people's quality of life, foster their independence, and lessen the strain on carers. Ophthalmologists and other healthcare professionals must aggressively embrace AI visual aid technologies in order to maximize the care given to blind patients.

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