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An innovative, cost-effective technique for iris positioning in ocular prosthesis fabrication: A Case Report

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ABSTRACT:

Accurate iris positioning is one of the most critical determinants of the aesthetic success of a custom ocular prosthesis, yet many existing techniques are subjective, technique-sensitive, or require additional equipment and assistance. This case report describes an innovative, economical, and reproducible method for iris positioning during customization of a stock ocular prosthesis in a 55-year-old male with an anophthalmic socket dissatisfied with his previous prosthesis. A customized stock ocular prosthesis was fabricated using conventional impression and processing techniques, while a novel helmet-mounted measuring apparatus constructed from readily available components was used to establish precise iris orientation by transferring measurements from the contralateral healthy eye. The technique enabled repeated verification of iris position, improved symmetry and natural gaze, and required minimal operator skill. The patient achieved satisfactory aesthetic rehabilitation with an accurately positioned prosthesis. This approach offers a practical, cost-effective alternative for routine clinical practice.

Keywords: Ocular prosthesis; Iris positioning; Anophthalmic socket; Custom ocular prosthesis

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