

東北大学大学院歯学研究科
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**A simple method of positioning the iris disc
on an ocular prosthesis using a graph grid
method - a clinical report**

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ABSTRACT: Congenital defect, disease, or accidental trauma may necessitate surgical intervention resulting in removal of the eyeball. The disfigurement associated with eye loss can cause significant physical and emotional disturbance. Psychological distress can be reduced by timely replacement with an artificial eye. The custom-made acrylic resin ocular prosthesis achieves intimate contact with the tissue bed. The exact adaptation of the custom-made ocular prosthesis tends to distribute pressure more equally, vis-à-vis a prefabricated ocular prosthesis. As asymmetry may result in a squint-eyed appearance, proper positioning of the iris disk in the scleral wax pattern is essential in fabricating the custom-made artificial eye; therefore, accurate placement of the custom-painted iris disk on the scleral wax pattern is critical. This presentation reports two cases of ocular prosthesis fabrication using a transparent graph grid for positioning the iris disk. The custom-made ocular prostheses could achieve intimate contact with the tissue bed enabling ideal fit. The position of the iris disk in the custom-made ocular prosthesis was in symmetry with that of the natural eye, restoring naturalness of the patient.

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