Changes in the Anterior Segment After Cycloplegia With a Biometer Using Swept-Source Optical Coherence Tomography

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Abstract

Cycloplegic agents are used routinely during the examination in pediatric patients to investigate the correct refraction without accommodation.

Cycloplegia was performed using the following regimen. Cyclopentolate hydrochloride 1% (Cyplegin 1% ophthalmic solution, Santen Pharmaceutical, Osaka, Japan) was instilled three times at 10-min intervals. The measurements were obtained 60 min after the last instillation. After cycloplegia was established, the lens thickness was routinely determined using the biometer, and the refraction was obtained with the autorefractometer.

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Protocol

Step 1.

Cyclopentolate hydrochloride 1% (Cyplegin 1% ophthalmic solution, Santen Pharmaceutical, Osaka, Japan) was instilled three times at 10-min intervals.

Step 2.

The lens thickness was routinely determined using the biometer, and the refraction was obtained with the autorefractometer 60 min after the last instillation.