Corneal Hysteresis Determination by Air Impulse Stimulation
Policy Number: PG0317
Last Review: 12/16/2016

GUIDELINES
This policy does not certify benefits or authorization of benefits, which is designated by each individual policyholder contract. Paramount applies coding edits to all medical claims through coding logic software to evaluate the accuracy and adherence to accepted national standards. This guideline is solely for explaining correct procedure reporting and does not imply coverage and reimbursement.

SCOPE
X Professional
_ Facility

DESCRIPTION
Corneal hysteresis is defined as the difference between the pressure at which the cornea bends inward during an air jet application and the pressure at which it bends out again. It has thought that this difference, which is measured in mmHg, gauges a biomechanical property of the cornea relating to its elasticity—specifically, the cornea’s relative ability to absorb pressure by bending when pressure is applied.

The Ocular Response Analyzer® is an instrument that measures corneal hysteresis by using a rapid air impulse to apply force to the cornea. An advanced electro-optical system then monitors the deformation. Two independent pressure values are derived from the inward and outward application events. The difference between these two pressure values is corneal hysteresis. Low CH demonstrates that the cornea is less capable of absorbing (damping) the energy of the air pulse.

Abnormalities in corneal hysteresis have been detected in a variety of corneal diseases, including keratoconus, Fuchs’ dystrophy, and in post-LASIK patients. Glaucoma is another potential indication for corneal hysteresis measurement. The preferred method of measuring intraocular pressure is using a contact applanation method such as a Goldmann tonometer. Corneal compensated intraocular pressure (IOP), derived from the CH measure has been suggested as a superior measurement of IOP compared to the Goldmann tonometer measurement.

POLICY
Measurement of corneal hysteresis (92145) is non-covered for HMO, PPO, Individual Marketplace, & Elite/ProMedica Medicare Plan.

Measurement of corneal hysteresis (92145) does not require prior authorization for Advantage.

COVERAGE CRITERIA
HMO, PPO, Individual Marketplace, Elite/ProMedica Medicare Plan
Paramount has determined that measurement of corneal hysteresis is experimental and investigational and therefore non-covered because there is conflicting findings in the peer-reviewed medical literature regarding the safety and effectiveness of this procedure.

Advantage
While there is conflicting findings in the published medical literature to demonstrate the safety, efficacy and long-term outcomes for measurement of corneal hysteresis as a screening and/or monitoring of glaucoma, The Ohio Department of Medicaid requires this procedure be covered for Advantage members.
CODING/BILLING INFORMATION
The appearance of a code in this section does not necessarily indicate coverage. Codes that are covered may have selection criteria that must be met. Payment for supplies may be included in payment for other services rendered.

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<thead>
<tr>
<th>CPT CODE</th>
<th>Description</th>
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<tr>
<td>92145</td>
<td>Corneal hysteresis determination, by air impulse stimulation, unilateral or bilateral, with interpretation and report</td>
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REVISION HISTORY EXPLANATION
ORIGINAL EFFECTIVE DATE: 11/21/2014
11/21/14: Policy created to reflect most current clinical evidence per TAWG committee.
12/02/14: Added effective 1/1/15 new code 92145 and removed deleted code 0181T.
12/17/15: Measurement of corneal hysteresis is now covered for Advantage per ODM guidelines. Policy reviewed and updated to reflect most current clinical evidence per TAWG committee.
12/16/16: Policy reviewed and updated to reflect most current clinical evidence per The Technology Assessment Working Group (TAWG).
12/21/2020: Medical policy placed on the new Paramount Medical Policy Format

REFERENCES/RESOURCES
Centers for Medicare and Medicaid Services, CMS Manual System and other CMS publications and services
Ohio Department of Medicaid
American Medical Association, Current Procedural Terminology (CPT®) and associated publications and services
Industry Standard Review
Hayes, Inc.