OVERVIEW
Macugen, a vascular endothelial growth factor (VEGF) inhibitor, is indicated for the treatment of neovascular (wet) age-related macular degeneration. The recommended dose for Macugen is 0.3 mg administered by intravitreal injection once every 6 weeks.

Other Uses with Supportive Evidence
Overproduction of VEGF may lead to other eye conditions, including neovascular glaucoma, retinopathy of prematurity, and other retinal and choroidal neovascular conditions affecting the eye, the VEGF inhibitors also have the potential to be used off-label and reduce vision loss associated with other eye conditions related to increased VEGF production. The use of anti-VEGF agents have been shown to stop the angiogenic process and maintain visual acuity and improve vision in patients with certain neovascular ophthalmic conditions; therefore, research is rapidly evolving on the use of VEGF inhibitors in other neovascular ophthalmic conditions which threaten vision. Anti-VEGF therapy has the potential to be used off-label in other neovascular conditions affecting the eye and may prevent or slow visual impairment.

POLICY STATEMENT
Prior authorization is recommended for medical benefit coverage of Macugen. Approval is recommended for those who meet the Criteria and Dosing for the listed indication(s). Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis, the injection technique required, and the monitoring required for adverse events and long-term efficacy, approval requires Macugen to be prescribed by or in consultation with an ophthalmologist.

RECOMMENDED AUTHORIZATION CRITERIA
Coverage of Macugen is recommended in those who meet the following criteria.

FDA-Approved Indications

1. Neovascular (Wet) Age-Related Macular Degeneration. Approve for 1 year if administered by or under the supervision of an ophthalmologist.

   Dosing. Approve if the requested dosing meets the following (A and B):
   A) The dose is ≤ 0.3 mg administered by intravitreal injection for each eye being treated; AND
   B) The dosing interval is not more frequent than once every 6 weeks for each eye being treated.
Other Uses with Supportive Evidence

2. **Other Neovascular Ophthalmic Conditions.** Approve for 1 year if administered by or under the supervision of an ophthalmologist.

   **Dosing.** Approve if the dose meets both criteria (A and B):
   
   A) The dose is ≤ 0.3 mg administered by intravitreal injection for each eye being treated; AND
   
   B) The dosing interval is not more frequent than once every 6 weeks for each eye being treated.

**CONDITIONS NOT RECOMMENDED FOR APPROVAL**

Macugen has not been shown to be effective, or there are limited or preliminary data or potential safety concerns that are not supportive of general approval for the following conditions. Rationale for non-coverage for these specific conditions is provided below. (Note: This is not an exhaustive list of Conditions Not Recommended for Approval.)

1. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

**REFERENCES**


**HISTORY**

<table>
<thead>
<tr>
<th>Type of Revision</th>
<th>Summary of Changes</th>
<th>Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Policy</td>
<td>--</td>
<td>11/14/2018</td>
</tr>
<tr>
<td>Annual revision</td>
<td>The dosing in the approval conditions for <strong>Neovascular (Wet) Age-Related Macular Degeneration</strong> was changed from “the dose is 0.3 mg” to “The dose is ≤ 0.3 mg”.</td>
<td>11/06/2019</td>
</tr>
</tbody>
</table>