Clinical Criteria

Subject:	Vascular Endothelial Growth F	Vascular Endothelial Growth Factor (VEGF) Inhibitors	
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Document history

Overview

Clinical criteria

This document addresses the use of intravitreal vascular endothelial growth factor (VEGF) antagonists. Overexpression of VEGF is thought to contribute to diabetic retinopathy, and other retinal disorders associated with neovascularization. Avastin (bevacizumab) is humanized anti-VEGF antibody which blocks all VEGF isoforms. Lucentis (ranibizumab) and its biosimilar Byooviz (ranibizumab-nuna) are truncated forms of bevacizumab. Beovu (brolucizumab) is a humanized single-chain antibody fragment that blocks all VEGF-A isoforms. Eylea (aflibercept) is a recombinant fusion protein that binds to VEGF-A as well as Placental Growth Factor (PIGF). Macugen is an RNA aptamer that binds and neutralizes VEGF. Vabysmo (faricimab-svoa) is a humanized bispecific antibody that targets both VEGF-A and angiopoietin-2 (Ang-2).

Avastin is most often used intravenously as an anti-cancer agent. While it is not FDA approved to be used intravitreously or for any ocular conditions; it is widely used in ophthalmology. Compounding pharmacies often repackage Avastin into single-use units for use by ophthalmologists. FDA and the American Academy of Ophthalmology (AAO) have issued warnings regarding the importance of obtaining repackaged Avastin from compounding pharmacies accredited by National Boards of Pharmacy to avoid the potential for contaminated products.

<u>Age-related macular degeneration (AMD)</u>: AMD is an eye disease characterized by progressive degeneration of the macula and is the leading cause of vision loss in older adults. When AMD results in the development of abnormal blood vessels behind the retina, the condition is commonly referred to as "wet" or neovascular AMD. These new blood vessels tend to be fragile and loss of central vision can occur quickly over the course of weeks to months. Although most patients with advanced AMD do not become completely blind, significant visual loss can lead to disability. The AAO Preferred Practice Pattern (PPP) on AMD states, "Intravitreal injection therapy using anti-VEGF agents (e.g. aflibercept, bevacizumab, and ranibizumab) is the most effective way to manage neovascular AMD and represents the first line of treatment." Beovu is also approved for the treatment of neovascular age-related macular degeneration and is recommended in the AAO PPP. However, post marketing safety reports and new warnings about retinal vasculitis and/or retinal vascular occlusion have prompted concerns around its relative safety profile. Although Macugen is FDA-approved for AMD, it does not improve visual acuity in patients with new-onset neovascular AMD and is rarely used in current clinical practice.

Retinal vein occlusion: A blockage of the blood supply from the retina causes retinal vein occlusion. This condition most often affects older individuals and can be caused by a blood clot, diabetes, glaucoma, atherosclerosis or hypertension. Retinal vein occlusion is the second most common type of retinal vascular disease and is estimated to involve 180,000 eyes per year. The AAO PPP for retinal vein occlusion states, "Macular edema may complicate both central retinal vein occlusions (CRVOs) and branch retinal vein occlusions (BRVOs). The first line of treatment for the associated macular edema is anti-VEGFs."

<u>Diabetic retinopathy (DR) and diabetic macular edema (DME):</u> Diabetic retinopathy is one of the leading causes of blindness in working-age Americans. Approximately 28% of adults with diabetes over the age of 40 develop DR. DR and DME are caused by chronically high blood sugar which disrupts blood flow and causes damage to the tiny blood vessels in the retina. In its most advanced stage, DR can cause new abnormal blood vessels to grow on the surface of the retina, which can lead to scarring and visual disturbance. This severe form is called proliferative diabetic retinopathy (PDR). Sometimes, fluid can leak into the center of the macula, causing the macula to swell, resulting in blurred vision. This is known as diabetic macular edema. Macular edema can occur at any stage of diabetic retinopathy. Intravitreal VEGF injections have shown efficacy in treating DME and in preventing progression of diabetic retinopathy.

<u>Rare ocular conditions</u>: Conditions such as neovascular glaucoma, non-myopic causes of choroidal neovascularization, radiation retinopathy, and retinopathy of prematurity have historically been treated with bevacizumab. These conditions represent an unmet medical need as there are limited or no approved therapies. Given the rarity of the conditions, high-quality evidence may not be feasible in these conditions.

Intraocular injections pose a risk for infection, retinal detachment and traumatic lens injury. These injections require the treating physician to adhere to appropriate aseptic technique, educate individuals regarding worrisome symptoms and monitor individuals after each injection as increases in intraocular pressure have been seen.

Biosimilar Agents: Biosimilar products must be highly similar to the reference product and there must be no clinically meaningful differences between the biological product and the reference product in terms of the safety, purity, and potency of the product. Biosimilars must utilize the same mechanism of action (MOA), route of administration, dosage form and strength as the reference product; and the indications proposed must have been previously approved for the reference product. The potential exists for a biosimilar product to be approved for one or more indications for which the reference product is licensed based on extrapolation of data intended to demonstrate biosimilarity in one indication. Sufficient scientific justification for extrapolating data is necessary for FDA approval. Factors and issues that should be considered for extrapolation include the MOA for each indication, the pharmacokinetics, bio-distribution, and immunogenicity of the product in different patient populations, and differences in expected toxicities in each indication and patient population. Alymsys (bevacizumab-maly), Mvasi (bevacizumab-awwb), and Zirabev (bevacizumab-bvzr) are FDA approved biosimilar agents to Avastin. They share the same FDA approved uses as Avastin, with the exception of hepatocellular carcinoma. Alymsys, Mvasi, and Zirabev have not been studied in ophthalmic indications. However, since they have demonstrated biosimilarity to Avastin for FDA indications, biosimilarity may be extrapolated to other FDA indications and off-label indications, as well. Byooviz (ranibizumab-nuna) is an FDA approved biosimilar to Lucentis and carries indications for AMD, retinal vein occlusion, and myopic choroidal neovascularization. The FDA approval of Byooviz was based on the totality of evidence demonstrating biosimilarity. including a randomized, double-masked, parallel group, multicenter phase 3 study in 705 patients with wet AMD. Results showed that after 24 weeks of monthly treatment with either Lucentis or Byooviz, the least square mean change in best corrected visual acuity (BCVA) from baseline to week 8 were 6.2 and 7.2 letters, respectively. The adjusted treatment difference between groups was -0.8 letters (90% CI, -1.8 to 0.2 letter), which was within the predefined equivalence limits of -3 to 3 letters. While Byooviz is not FDA approved for diabetic macular edema or diabetic retinopathy, efficacy may be extrapolated based on biosimilarity.

Macugen (pegaptanib) was discontinued by the manufacturer. Criteria will remain active until September 2022 as claims can adjudicate several years after agent discontinuation.

Clinical Criteria

When a drug is being reviewed for coverage under a member's medical benefit plan or is otherwise subject to clinical review (including prior authorization), the following criteria will be used to determine whether the drug meets any applicable medical necessity requirements for the intended/prescribed purpose.

Vabysmo (faricimab-svoa)

Requests for Vabysmo (faricimab-svoa) may be approved if the following criteria are met:

- Individual has a diagnosis of one of the following:
 - A. Established neovascular "wet" age-related macular degeneration; **OR**
 - Diabetic macular edema (DME) (including DME with or without diabetic retinopathy of any severity).

Requests for Vabysmo (faricimab-svoa) may not be approved when the above criteria are not met and for all other indications.

Macugen (pegaptanib)

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Requests for Macugen (pegaptanib) may be approved if the following criteria are met:

Individual has a diagnosis of established neovascular "wet" age-related macular degeneration.

Requests for Macugen (pegaptanib) may not be approved for the following:

- I. Diabetic eye disease; OR
- II. As a treatment of other forms of age-related macular degeneration to prevent progression to neovascular "wet" age-related macular degeneration; OR
- III. When the above criteria are not met and for all other indications.
- Avastin (bevacizumab); Alymsys (bevacizumab-maly); Mvasi (bevacizumab-awwb); Zirabev (bevacizumab-bvzr)

Precertification may not be required. For more information, click here/

Requests for Avastin (bevacizumab), Alymsys (bevacizumab-maly), Mvasi (bevacizumab-awwb), or Zirabev (bevacizumab-bvzr) may be approved if the following criteria are met: Individual has a diagnosis of one of the following: 1 Diabetic macular edema (including DME with or without diabetic retinopathy or any severity) (AAO 2019): OR Α. Proliferative or moderate to severe non-proliferative diabetic retinopathy with or without diabetic macular edema В. (AAO2019, DP B IIa); OR

- C. Established neovascular "wet" age-related macular degeneration (AHFS); OR
- Macular edema from branch retinal vein occlusion (AAO 2019); OR D.
- Ε. Macular edema from central retinal vein occlusion (AAO 2019); OR
- Neovascular glaucoma (Costagliola 2008, DP B IIb); OR
- G. Choroidal neovascularization associated with myopic degeneration (AAO Consensus 2017, DP B IIb); OR
- Other rare causes of choroidal neovascularization for one or more of the following conditions (Weber 2016): Η.
 - 1 angioid streaks: OR
 - 2. choroiditis (including, but not limited to histoplasmosis induced choroiditis); **OR** 3. retinal dystrophies; **OR**
 - 4. trauma; OR
 - 5. pseudoxanthoma elasticum;

OR

- Radiation retinopathy (Finger 2016); OR I.
- Retinopathy of prematurity (Sankar 2018, DP B IIb). J.

Requests for intravitreal injections of Avastin (bevacizumab), Alymsys (bevacizumab-maly), Mvasi (bevacizumab-awwb), Zirabev (bevacizumab-bvzr) may not be approved when the above criteria are not met and for all other indications.

Lucentis (ranibizumab); Byooviz (ranibizumab-nuna)

Requests for Lucentis (ranibizumab) or Byooviz (ranibizumab-nuna) may be approved if the following criteria are met:

- Individual has a diagnosis of one of the following:
- 1 Choroidal neovascularization associated with myopic degeneration; OR
- Diabetic macular edema (including DME with or without diabetic retinopathy or any severity); OR Ш
- Proliferative or moderate to severe non-proliferative diabetic retinopathy with or without diabetic macular edema ; OR Ш.
- Established neovascular "wet" age-related macular degeneration; OR IV.
- Macular edema from branch retinal vein occlusion; OR V
- VI. Macular edema from central retinal vein occlusion; OR
- VII. Radiation retinopathy (Finger 2016).

Requests for intravitreal injections Lucentis (ranibizumab) or Byooviz (ranibizumab-nuna) may not be approved when the above criteria are not met and for all other indications.

Eylea (aflibercept)

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Requests for Eylea (aflibercept) may be approved if the following criteria are met:

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- Individual has a diagnosis of one of the following: A. Diabetic macular edema (including DME with or without diabetic retinopathy or any severity); **OR**
 - Proliferative or moderate to severe non-proliferative diabetic retinopathy with or without diabetic macular edema ; OR В.
 - Established neovascular "wet" age-related macular degeneration; OR C.
 - D Macular edema from branch retinal vein occlusion: OR
 - E. Macular edema from central retinal vein occlusion.

Requests for intravitreal injections of Eylea (aflibercept) may not be approved when the above criteria are not met and for all other indications

Beovu (brolucizumab-dbll)

Requests for Beovu (brolucizumab-dbll) may be approved if the following criteria are met:

Individual has a diagnosis of one of the following: A. eEstablished neovascular "wet" age-related macular degeneration: OR II.B. Diabetic macular edema (including DME with diabetic retinopathy of any severity). Formatted: Numbered + Level: 2 + Numbering Style: A, B, C, ... + Start at: 1 + Alignment: Left + Aligned at: 0.75" + Indent at: 1"

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Requests for intravitreal injections of Beovu (brolucizumab-dbll) may not be approved when the above criteria are not met and for all other indications.

Step Therapy

Note: When an intravitreal VEGF antagonist is deemed approvable based on the clinical criteria above, the benefit plan may have additional criteria requiring the use of a preferred¹ agent or agents.

A list of the preferred intravitreal VEGF antagonist(s) are available here.

Non-preferred Intravitreal VEGF Antagonists Step Therapy

Requests for a non-preferred intravitreal VEGF antagonist may be approved when the following criteria are met:

- I. Individual has been on the requested agent; OR
- II. Individual has had a trial and inadequate response or intolerance to one preferred agent:
- OR

III. The preferred agents are not FDA-approved and do not have an accepted off-label use per the off-label use policy for the prescribed indication and the requested non-preferred agent does;

OR

IV. A non-preferred agent may be approved for a diagnosis other than age-related macular degeneration if Avastin is the sole preferred agent approvable for that diagnosis;

OR

V. Lucentis may be approved if individual currently has a Susvimo ocular implant and is requesting supplemental injections.

¹Preferred, as used herein, refers to agents that were deemed to be clinically comparable to other agents in the same class or disease category but are preferred based upon clinical evidence and cost effectiveness.

Quantity Limits

Vascular Endothelial Growth Factor (VEGF) Antagonists Quantity Limit

Drug	Limit	
Eylea (aflibercept) 2 mg vial	2 mg per eye; each eye may be treated as frequently as every 4 weeks	
Lucentis (ranibizumab) 0.3 mg, 0.5 mg vial & syringe	Diabetic macular edema and diabetic retinopathy: 0.3 mg per eye; each	
	eye may be treated as frequently as every 4 weeks	
	Age related macular degeneration, branch or central retinal vein	
	occlusion, myopic choroidal neovascularization, and radiation	
	retinopathy: 0.5 mg per eye; each eye may be treated as frequently as	
	every 4 weeks	
Byooviz (ranibizumab-nuna) 0.5 mg vial	0.5 mg per eye; each eye may be treated as frequently as every 4 weeks	
Macugen (pegaptanib sodium) 0.3 mg prefilled syringe	One syringe (0.3 mg) per eye; each eye may be treated as frequently as every 6 weeks	
Avastin (bevacizumab) 100 mg, 400 mg vial; <u>Alymsys</u> (bevacizumab-maly) 100 mg, 400 mg vial; <u>Mvasi</u> (bevacizumab-awwb) 100 mg, 400 mg vial; Zirabev (bevacizumab-bvzr) 100 mg, 400 mg vial (when used for ophthalmologic indications)	1.25 mg per eye; each eye may be treated as frequently as every 4 weeks	
Beovu (brolucizumab-dbll) 6 mg vial <u>& prefilled syringe</u>	6 mg per eye; each eye may be treated as frequently as every 8 weeks**	
Vabysmo (faricimab-svoa) 6 mg vial	6 mg per eye; each eye may be treated as frequently as every 4 weeks	
	Override Criteria	
**For Beovu, may approve up to 1 (one) additional single use vial (6 mg/vial) per eye in the first 8 weeks of treatment <u>the following for initiation of therapy:</u> Age-related macular degeneration: One 6 mg dose per eye monthly for the first three (3) doses; OR 		

II. Diabetic macular edema (DME): One 6 mg dose per eye every six weeks for the first five (5) doses

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Coding

The following codes for treatments and procedures applicable to this document are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

Intravitreal injections of pegaptanib [Macugen]

CPT	
67028	Intravitreal injection of a pharmacologic agent [when billed in conjunction with intravitreal injection of pegaptanib HCPCS code listed below] *Inclusion of this code in the clinical policy is informational only and does not denote a requirement for pre or post service medical necessity review.
HCPCS	
J2503	Injection, pegaptanib sodium, 0.3 mg [Macugen]
ICD-10 Diagnosis	
H35.3210-H35.3293	Exudative age-related macular degeneration

Intravitreal injections of bevacizumab [Avastin] [Mvasi] [Zirabev] [Alymsys]

HCPCS

C9257	Injection, bevacizumab, 0.25 mg [Avastin]
J9035	Injection, bevacizumab, 10 mg [when specified as Avastin intravitreal]
J9999	Not otherwise classified, antineoplastic drugs [Alymsys] (when specified as (bevacizumab-maly)
Q5107	Injection, bevacizumab-awwb, biosimilar, 10 mg [Mvasi]
Q5118	Injection, bevacizumab-bvzr, biosimilar, 10 mg [Zirabev]

ICD-10 Diagnosis

B39.0-B39.9	Histoplasmosis
E08.311-E08.3519 E08.3521-E08.3599	Diabetes mellitus due to underlying condition with diabetic retinopathy with macular edema [includes only codes E08.311 and ranges E08.3211-E08.3219, E08.3311-E08.3319, E08.3411-E08.3419, E08.3511-E08.3519, and E08.319 when specified as proliferative diabetic retinopathy] Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy [without macular edema]
E09.311-E09.3519 E09.3521-E09.3599	Drug or chemical induced diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E09.311 and ranges E09.3211-E09.3219, E09.3311-E09.3319, E09.3411-E09.3419, E09.3511-E09.3519, and E09.319 when specified as proliferative diabetic retinopathy] Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E10.311-E10.3519 E10.3521-E10.3599	Type 1 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E10.311 and ranges E10.3211-E10.3219, E10.3311-E10.3319, E10.3411-E10.3419, E10.3511-E10.3519, and E10.319 when specified as proliferative diabetic retinopathy] Type 1 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E11.311-E11.3519 E11.3521-E11.3599	Type 2 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E11.311 and ranges E11.3211-E11.3219, E11.3311-E11.3319, E11.3411-E11.3419, E11.3511-E11.3519, and E11.319 when specified as proliferative diabetic retinopathy] Type 2 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E13.311-E13.3519	Other specified diabetes mellitus with diabetic retinopathy with macular edema [includes only codes
210.011 210.0010	E13.311 and ranges E13.3211-E13.3219, E13.3311-E13.3319, E13.3411-E13.3419, E13.3511-E13.3519, and E13.319 when specified as proliferative diabetic retinopathy]

E13.3521-E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
H21.1X1-H21.1X9	Other vascular disorders of iris and ciliary body (neovascularization)
H30.001-H30.049	Focal chorioretinal inflammation
H30.101-H30.149	Disseminated chorioretinal inflammation
H30.891-H30.899	Other chorioretinal inflammations
H30.90-H30.93	Unspecified chorioretinal inflammation
H32	Chorioretinal disorders in diseases classified elsewhere
H34.8110	Central retinal vein occlusion, right eye, with macular edema
H34.8120	Central retinal vein occlusion, left eye, with macular edema
H34.8130	Central retinal vein occlusion, bilateral, with macular edema
H34.8190	Central retinal vein occlusion, unspecified eye, with macular edema
H34.8310	Tributary (branch) retinal vein occlusion, right eye, with macular edema
H34.8320	Tributary (branch) retinal vein occlusion, left eye, with macular edema
H34.8330	Tributary (branch) retinal vein occlusion, bilateral, with macular edema
H34.8390	Tributary (branch) retinal vein occlusion, unspecified eye, with macular edema
H35.00-H35.09	Background retinopathy and retinal vascular changes
H35.101-H35.179	Retinopathy of prematurity
H35.3210-H35.3293	Exudative age-related macular degeneration
H35.33	Angioid streaks of macula
H35.50-H35.54	Hereditary retinal dystrophy
H35.9	Unspecified retinal disorder [specified as radiation retinopathy]
H40.50X0-H40.53X4	Glaucoma secondary to other eye disorders [neovascular glaucoma]
H40.89	Other specified glaucoma [neovascular glaucoma]
H44.20-H44.23	Degenerative myopia
H44.2A1-H44.2A9	Degenerative myopia with choroidal neovascularization
Q82.8	Other specified congenital malformations of skin [pseudoxanthoma elasticum]
T66.XXXA-T66.XXXS	Radiation sickness, unspecified [specified as radiation retinopathy]

Intravitreal injections of ranibizumab [Lucentis] [Byooviz]

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CPT	
67028	Intravitreal injection of a pharmacologic agent [when billed in conjunction with intravitreal injection of ranibizumab HCPCS code listed below]
	. *Inclusion of this code in the clinical policy is informational only and does not denote a requirement for pre or post service medical necessity review.
HCPCS	
J2778	Injection, ranibizumab; 0.1 mg [Lucentis]
Q5124	Injection, ranibizumab-nuna, biosimilar, 0.1 mg (ranibizumab-nuna) [Byooviz]
ICD-10 Diagnosis	
E08.311-E08.3519	Diabetes mellitus due to underlying condition with diabetic retinopathy with macular edema [includes only codes E08.311 and ranges E08.3211-E08.3219, E08.3311-E08.3319, E08.3411-E08.3419, E08.3511-E08.3519, and E08.319 when specified as proliferative diabetic retinopathy]
E08.3521-E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy [without macular edema]
E09.311-E09.3519	Drug or chemical induced diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E09.311 and ranges E09.3211-E09.3219, E09.3311-E09.3319, E09.3411-E09.3419, E09.3511-E09.3519, and E09.319 when specified as proliferative diabetic retinopathy]
E09.3521-E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy [without macular edema]

E10.311-E10.3519	Type 1 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E10.311 and ranges E10.3211-E10.3219, E10.3311-E10.3319, E10.3411-E10.3419, E10.3511-E10.3519, and E10.319 when specified as proliferative diabetic retinopathy]
E10.3521-E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E11.311-E11.3519	Type 2 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E11.311 and ranges E11.3211-E11.3219, E11.3311-E11.3319, E11.3411-E11.3419, E11.3511-E11.3519, and E11.319 when specified as proliferative diabetic retinopathy]
E11.3521-E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E13.311-E13.3519	Other specified diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E13.311 and ranges E13.3211-E13.3219, E13.3311-E13.3319, E13.3411-E13.3419, E13.3511-E13.3519, and E13.319 when specified as proliferative diabetic retinopathy]
E13.3521-E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
H21.1X1-H21.1X9	Other vascular disorders of iris and ciliary body (neovascularization)
H34.8110	Central retinal vein occlusion, right eye, with macular edema
H34.8120	Central retinal vein occlusion, left eye, with macular edema
H34.8130	Central retinal vein occlusion, bilateral, with macular edema
H34.8190	Central retinal vein occlusion, unspecified eye, with macular edema
H34.8310	Tributary (branch) retinal vein occlusion, right eye, with macular edema
H34.8320	Tributary (branch) retinal vein occlusion, left eye, with macular edema
H34.8330	Tributary (branch) retinal vein occlusion, bilateral, with macular edema
H34.8390	Tributary (branch) retinal vein occlusion, unspecified eye, with macular edema
H35.3210-H35.3293	Exudative age-related macular degeneration
H35.9	Unspecified retinal disorder [specified as radiation retinopathy]
H44.20-H44.23	Degenerative myopia
H44.2A1-H44.2A9	Degenerative myopia with choroidal neovascularization
T66.XXXA-T66.XXXS	Radiation sickness, unspecified [specified as radiation retinopathy]

Intravitreal injections of aflibercept [Eylea]

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67028	Intravitreal injection of a pharmacologic agent [when billing in conjunction with intravitreal injection of aflibercept HCPCS code listed below]
	*Inclusion of this code in the clinical policy is informational only and does not denote a requirement for pre or post service medical necessity review.
HCPCS	
J0178	Injection, aflibercept, 1 mg [Eylea]
ICD-10 Diagnosis	
E08.311-E08.3519	Diabetes mellitus due to underlying condition with diabetic retinopathy with macular edema [includes only codes E08.311 and ranges E08.3211-E08.3219, E08.3311-E08.3319, E08.3411-E08.3419, E08.3511-E08.3519, and E08.319 when specified as proliferative diabetic retinopathy]
E08.3521-E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy [without macular edema]
E10.311-E10.3519	Type 1 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E10.311 and ranges E10.3211-E10.3219, E10.3311-E10.3319, E10.3411-E10.3419, E10.3511-E10.3519, and E10.319 when specified as proliferative diabetic retinopathy]
E10.3521-E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E11.311-E11.3519	Type 2 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E11.311 and ranges E11.3211-E11.3219, E11.3311-E11.3319, E11.3411-E11.3419, E11.3511-E11.3519, and E11.319 when specified as proliferative diabetic retinopathy]
E11.3521-E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E13.311-E13.3519	Other specified diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E13.311 and ranges E13.3211-E13.3219, E13.3311-E13.3319, E13.3411-E13.3419, E13.3511-E13.3519, and E13.319 when specified as proliferative diabetic retinopathy]
E13.3521-E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy [without macular edema]

H34.8110	Central retinal vein occlusion, right eye, with macular edema
H34.8120	Central retinal vein occlusion, left eye, with macular edema
H34.8130	Central retinal vein occlusion, bilateral, with macular edema
H34.8190	Central retinal vein occlusion, unspecified eye, with macular edema
H34.8310	Tributary (branch) retinal vein occlusion, right eye, with macular edema
H34.8320	Tributary (branch) retinal vein occlusion, left eye, with macular edema
H34.8330	Tributary (branch) retinal vein occlusion, bilateral, with macular edema
H34.8390	Tributary (branch) retinal vein occlusion, unspecified eye, with macular edema
H35.3210-H35.3293	Exudative age-related macular degeneration
H35.9	Unspecified retinal disorder [specified as radiation retinopathy]

Intravitreal injections of (brolucizumab-dbll) [Beovu] $C\!PT$

67028	Intravitreal injection of a pharmacologic agent [when billed in conjunction with intravitreal injection of brolucizumab-dbll HCPCS code listed below.]
	*Inclusion of this code in the clinical policy is informational only and does not denote a requirement for pre or post service medical necessity review.
HCPCS	
J0179	J0179 : Injection, brolucizumab-dbll, 1 mg [Beovu]
ICD-10 Diagnosis	
H35.3210-H35.3293	Exudative age-related macular degeneration
E08.311-E08.3519 E08.3521-E08.3599	Diabetes mellitus due to underlying condition with diabetic retinopathy with macular edema [includes only codes E08.311 and ranges E08.3211-E08.3219, E08.3311-E08.3319, E08.3411-E08.3419, E08.3511-E08.3519, and E08.319 when specified as proliferative diabetic retinopathy] Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy [without macular edema]
200.3321-200.3333	Diabetes meninus due to undenying condition with promerative diabetic retinopathy [without macdial edenia]
E10.311-E10.3519 E10.3521-E10.3599	Type 1 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E10.311 and ranges E10.3211-E10.3219, E10.3311-E10.3319, E10.3411-E10.3419, E10.3511-E10.3519, and E10.319 when specified as proliferative diabetic retinopathy] Type 1 diabetes mellitus with proliferative diabetic retinopathy [without macular edema]
E11.311-E11.3519	Type 2 diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E11.311 and ranges E11.3211-E11.3219, E11.3311-E11.3319, E11.3411-E11.3419, E11.3511-E11.3519, and E11.319 when specified as proliferative diabetic retinopathy]
E13.311-E13.3519	Other specified diabetes mellitus with diabetic retinopathy with macular edema [includes only codes E13.311 and ranges E13.3211-E13.3219, E13.3311-E13.3319, E13.3411-E13.3419, E13.3511-E13.3519, and E13.319 when specified as proliferative diabetic retinopathy]
E13.3521-E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy [without macular edema]

Intravitreal injections of Vabysmo (faricimab-svoa)

CPT	
67028	Intravitreal injection of a pharmacologic agent [when billed in conjunction with intravitreal injection of brolucizumab-dbll HCPCS code listed below.]
	*Inclusion of this code in the clinical policy is informational only and does not denote a requirement for pre or post service medical necessity review.
HCPCS	
C9097	Injection, faricimab-svoa, 0.1 mg [Vabysmo] (faricimab-svoa))
J3490	Unclassified drugs (when specified as [Vabysmo] (faricimab-svoa))
J3590	Unclassified biologics (when specified as [Vabysmo] (faricimab-svoa))
ICD-10 Diagnosis	
	All diagnoses pend

Document History

Revised: 06/13/2022

Document History:

- 06/13/2022 Select Review: Update Beovu clinical criteria to include new indication for diabetic macular edema; update DME indication for other agents for clarity; add new bevacizumab biosimilar Alymsys to clinical criteria and quantity limits; update Beovu quantity limit override for new indication; wording and formatting updates. Step Therapy table updates. Coding Reviewed: Added HCPCS J9999 for Alymsys. Added IC-10-CM E08.311-E08.3519, E08.3521-E08.3599, E10.311-E10.3519, E10.3521-E10.3599, E11.311-E11.3519, E13.311-E13.3519, E13.3521-E13.3599 for Beovu.
- 04/25/2022 Step therapy table updates.
- 02/25/2022 Select Review: Update naming convention to VEGF Inhibitors; Add clinical criteria and quantity limit for new agent Vabysmo: update diabetic macular edema indication for clarification in other criteria: add Vabysmo as potential preferred in step therapy; remove biosimilars Mvasi and Zirabev from Non-preferred VEGF inhibitors step therapy; retire bevacizumab reference and biosimilar agents for ophthalmologic indications step therapy; wording and formatting changes. Coding Reviewed: Added HCPCS Q5124 for Byooviz. Removed J3490 for Byooviz. Added HCPCS J3490, J3590 for Vabysmo. All diagnoses pend. Effective 7/1/2022 Added HCPCS C9097.
- 02/18/2022 Step therapy table updates.
- 01/28/2022 Step therapy table updates.
- 11/19/2021- Annual Review: Add clinical criteria and quantity limit for new biosimilar Byooviz; update diabetic retinopathy criteria to include moderate to severe non-proliferative disease; update Lucentis quantity limit to break out by diagnosis for clarity and to include all diagnoses; wording and formatting updates. Step therapy table update. Coding Reviewed: Added HCPCS J3490 for Byooviz.
- 11/20/2020- Annual Review: Clarify diabetic macular edema applies to individuals with all types of diabetic retinopathy; update step therapy to move Beovu to non-preferred and to allow continuation of use; update references; wording and formatting changes. Coding Reviewed: Removed CPT code 67028 from Avastin.
- 02/21/2020- Select Review: Add bevacizumab products as potential preferred in VEGF step therapy with override; update references. Coding Reviewed: No changes. 7/13/2020 Removed T66.XXXA-T66.XXXS radiation sickness for Eylea per clinical guideline. 8/21/2020-Removed HCPCS J3590, J3490.
- 11/15/2019- Annual Review: Add prior authorization and quantity limit to new agent Beovu; add Beovu as potential preferred to step therapy; update quantity limit override criteria for Lucentis. Added HCPCS 67028, and J0179, and ICD-10-CM H35.3210-H35.3293 for Beovu
- 09/09/2019- Select Review: Wording and formatting updates; add new Eylea dosage form to quantity limits.
- 08/16/2019- Select Review: Add biosimilar Zirabev to bevacizumab criteria; add non-preferred bevacizumab reference and biosimilar step therapy for ophthalmologic indications; add quantity limits to Mvasi and Zirabev. Coding Reviewed: Added HCPCS code Q5118 for Zirabev
- 11/16/2018- Appual Review: Add references for off-label uses: add biosimilar Myasi to bevacizumab criteria. clarify offlabel uses of bevacizumab; remove bevacizumab from step therapy. HCPCS Coding Review: no change. HCPCS Coding Review: Deleted J3490 and J3590 for Mvasi and added Q5107 effective 1/1/2019. Deleted ICD-10 E09.311-E09.3519, E09.3521-E09.3599 from Eylea criteria due to removal of indication for radiation retinopathy. Added HCPCS codes J3490 and J3590 back in for Avastin and Mvasi because NOC codes are used for some intravitreal formulations.

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ING-CC-0072 VEGF Inhibitors Step Therapy

Commercial Medical Benefit						
Effective Date	Preferred Agents	Non-Preferred Agents				
03/01/2022	Avastin Eylea	Beovu Lucentis Macugen Byooviz (as of 06/01/2022) Vabysmo (as of 08/01/2022)				

Medicaid Medical Benefit						
Effective Date	Preferred Agents	Non-Preferred Agents				
03/01/2022 – AR, CA, GA, IA, IN, LA, MD, NJ, NV, NY, SC, TN, VA, WI, WNY	Avastin	Eylea Beovu Lucentis Macugen				

	Medicare Medical Benefit		
Effective Date	Preferred Agents	Non-Preferred Agents	
03/01/2022	Avastin Eylea	Beovu Lucentis Macugen Byooviz (as of 06/01/2022)	
06/01/2022	<u>Avastin</u> <u>Eylea</u>	Beovu Byooviz Lucentis	Formatted: Font: (Default) Arial, 9 pt Formatted: Centered
<u>09/01/2022</u>	<u>Avastin</u> Eylea	<u>Macugen</u> <u>Beovu</u> <u>Byooviz</u> Lucentis Macugen	Formatted: Font: (Default) Arial, 9 pt Formatted: Centered
		Vabysmo	 Formatted: Font: (Default) Arial, 9 pt

^Precertification status for Medicaid:

Precertification Not Required for Avastin Ocular in the following markets:

AR, CA, GA, IN, IA, KY, LA, MD, MN, NE, NJ, NV, NY, NYW, SC, TN, TX, VA, WA, WV, WI

Precertification Required for Avastin Ocular in the following markets:

FL