Clinical Policy: Bevacizumab (<u>Alymsys, Avastin, Mvasi, Vegzelma, Zirabev</u>) Reference Number: LA.PHAR.93 Effective Date: 04.21 Last Review Date: <u>06.27.2304.22</u> Line of Business: Medicaid <u>Revision Log</u>

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See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Please note: This policy is for medical benefit

Description

Bevacizumab (Avastin[®]), bevacizumab-awwb (Mvasi[®]), bevacizumab-bvzr (Zirabev^M), <u>bevacizumab-maly (Alymsys[®]), and bevacizumab-adcd (Vegzelma^M)</u> are vascular endothelial growth factor-specific angiogenesis inhibitors.

FDA Approved Indication(s)

Avastin, Mvasi, Zirabev, Alymsys, and Vegzelma are indicated for the treatment of:

- Metastatic colorectal cancer, in combination with intravenous 5-fluorouracil (5-FU)-based chemotherapy for first- or second-line treatment
- Metastatic colorectal cancer, in combination with fluoropyrimidine-irinotecan- or fluoropyrimidine-oxaliplatin-based chemotherapy for second-line treatment in patients who have progressed on a first-line bevacizumab product-containing regimen
- Unresectable, locally advanced, recurrent or metastatic non-squamous non-small cell lung cancer (NSCLC), in combination with carboplatin and paclitaxel for first-line treatment
- Recurrent glioblastoma in adults
- Metastatic renal cell carcinoma (RCC) in combination with interferon alfa
- Persistent, recurrent, or metastatic cervical cancer, in combination with paclitaxel and cisplatin, or paclitaxel and topotecan
- Epithelial ovarian, fallopian tube, or primary peritoneal cancer:
 - In combination with carboplatin and paclitaxel, followed by Avastin/Mvasi/Zirabev<u>(Alymsys/Vegzelma</u> as a single agent, for stage III or IV disease
 - following initial surgical resection
 In combination with paclitaxel, pegylated liposomal doxorubicin, or topotecan for platinum-resistant recurrent disease who received no more than 2 prior chemotherapy regimens
 - In combination with carboplatin and paclitaxel or carboplatin and gemcitabine, followed by Avastin/Mvasi/Zirabev/<u>Alymsys/Vegzelma</u> as a single agent, for platinum-sensitive recurrent disease

Avastin is also indicated for the treatment of:

• Hepatocellular carcinoma (HCC) in combination with atezolizumab for patients with unresectable or metastatic HCC who have not yet received prior systemic therapy.

Limitation(s) of use: Bevacizumab-products are not indicated for adjuvant treatment of colon cancer.

Page 1 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



Policy/Criteria

Prior authorization is required. Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of Louisiana Healthcare Connections that Avastin, Mvasi, and-Zirabev, Alymsys, and Vegzelma are medically necessary when the following criteria are met:

I. Initial Approval Criteria

- A. FDA-Approved Indications (must meet all):
 - 1. Diagnosis of one of the following (a-g):
 - a. Colorectal cancer;
 - b. Non-squamous non-small cell lung cancerSCLS;
 - c. Glioblastoma;
 - d. Metastatic_renal cell carcincomaRCC;
 - e. Cervical cancer;
 - f. Epithelial ovarian, fallopian tube, or primary peritoneal cancer;
 - g. Hepatocellular carcinomaHCC;
 - 2. Prescribed by or in consultation with an oncologist;
 - 3. Age \geq 18 years;
 - 4. Member meets one of the following (a-g):

a. For colorectal cancer, used in combination with one of the following (i<u>-vi</u>, ii, iii, or iv):

- i. 5-FU or capecitabine-based chemotherapy;
- ii. Irinotecan and oxaliplatin;
- iii. FOLFOX (fluorouracil, leucovorin, and oxaliplatin) or CapeOX (capecitabine and oxaliplatin);
- iv. Irinotecan or FOLFIRI (fluorouracil, leucovorin, and irinotecan);
- ii.v. FOLFIRINOX (fluorouracil, leucovorin, irinotecan, and oxaliplatin);
- iii. Irinotecan if previously received adjuvant FOLFOX (fluorouracil, leucovorin, and oxaliplatin) or CapeOX (capecitabine and oxaliplatin) within the past 12 months;
- iv.vi. Lonsurf[®] if previously progressed through all available regimens;
- b. For recurrent, advanced, or metastatic non-squamous NSCLC, prescribed as one of the following (i-v):
 - i. Single agent therapy;
 - ii. In combination with carboplatin and paclitaxel for first line treatment;
 - iii. In combination with pemetrexed;
 - iv. In combination with Tecentriq[®];
 - v. In combination with erlotinib for sensitizing EGFR mutation-positive histology;
- For glioblastoma, member has recurrent disease or requires symptom management;

Page 2 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



- d. For metastatic <u>renal cell carcinomaRCC</u>, used as a single-agent or in combination with interferon alfa, everolimus, or erlotinib (for advanced papillary renal cell carcinoma including hereditary leiomyomatosis and renal cell cancer (<u>HLRCC</u>));
- e. For persistent, recurrent, or metastatic cervical cancer, used in one of the following ways (i or ii):

i. Single Agent

- i. In combination with paclitaxel and cisplatin, carboplatin, or topotecan;
- ii. In combination with Keytruda[®], paclitaxel, and cisplatin/carboplatin for PD-L1-postive disease;
- f. For epithelial ovarian, fallopian tube, or primary peritoneal cancer, one of the following (i-vi):
 - i. Prescribed in combination with carboplatin and paclitaxel, followed by bevacizumab as a single agent, for one of the following (1 or 2):
 - 1) Stage III or IV disease following initial surgical resection;
 - Stage II-IV high-grade serous, low-grade serous, endometroid (Grade 1/2/3), clear cell carcinoma, or carcinosarcoma;
 - Prescribed for maintenance in combination with Lynparza[®] for stage II-IV disease; carcincoma with a germline or somatic BRCA 1/2 mutation if complete response or partial response to primary therapy;
 - iii. Prescribed as targeted therapy in combination with Zejula[®] for platinumsensitive persistent disease or recurrence; for radiographic and/or clinical relapse in patients with previous complete remission and relapse after ≥6 months after completing prior chemotherapy;
 - iv. For platinum-resistant disease, prescribed in combination with paclitaxel, pegylated liposomal doxorubicin, topotecan, or cyclophosphamide;
 - v. For platinum-sensitive disease, prescribed in combination with carboplatin and paclitaxel, or carboplatin and gemcitabine, or carboplatin and liposomal doxorubicin, followed by bevacizumab as a single agent;
 - vi. Prescribed as a single agent;
- <u>g.</u> For unresectable or metastatic HCC, used in combination with Tecentriq as firstline systemic therapy, and:
 - vii.i. HCC is classified as Child-Pugh class A;
- 5. For <u>Alymsys</u>, Avastin, <u>or Vegzelma</u> requests, member meets one of the following (a or b):
 - a. Member must use Mvasi or Zirabev, unless both are contraindicated or clinically significant adverse effects are experienced;* *Prior authorization may be required for Mvasi and Zirabev
 - b. Request is for Stage IV or metastatic cancer or associated conditions. Exception if "clinically equivalent therapy, contains identical active ingredient(s), and proven to have same efficacy.
- 6. Request meets one of the following (a or b):*
 - a. Dose does not exceed 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks (*see Appendix F for dose rounding guidelines*);
 - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

Page 3 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



*Prescribed regimen must be FDA-approved or recommended by NCCN **Approval duration:** <u>Medicaid</u> 6 months

B. Oncology - Non-FDA-Approved Indications (off-label) (must meet all):

- 1. Diagnosis of one of the following conditions (a-<u>n</u>m):
 - a. Adult glioma of one of the following types (iI, ii, or iii):
 - i. Oligodendroglioma that is IDH-mutant, 1p19q codeleted;
 - ii. IDH-mutant astrocytoma;
 - iii. Low-grade (WHO Grade I) glioma;
 - a. Anaplastic gliomas;
 - Breast cancer;
 - Ampullary adenocarcinoma intestinal type;
 - b.c.Endometrial carcinoma;
 - e.d.Intracranial and spinal ependymoma;
 - d. Low-grade (WHO Grade I or II) glioma;
 - e. Malignant peritoneal mesothelioma;
 - e.f. Malignant pleural mesothelioma;
 - f.g. Medulloblastoma;
 - g.<u>h.</u>Meningioma;
 - i. Metastatic spine tumors or brain metastases;
 - h.j. Pediatric diffuse high-grade glioma;
 - i.k. Primary central nervous system cancers;
 - j....Small bowel adenocarcinoma;
 - k.m. Soft tissue sarcoma solitary fibrous tumor or angiosarcoma;
 - <u>h.n.</u> Vulvar cancer squamous cell carcinoma;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age \geq 18 years;
- 4. For <u>Alymsys</u>, Avastin, <u>or Vegzelma</u> requests, member meets one of the following (a or b):
 - a. Member must use Mvasi or Zirabev, unless both are contraindicated or clinically significant adverse effects are experienced;*
 - *Prior authorization may be required for Mvasi and Zirabev
 - b. Request is for Stage IV or metastatic cancer or associated conditions. Exception if "clinically equivalent therapy, contains identical active ingredient(s), and proven to have same efficacy.
- 5. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).* *Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration:

Medicaid - 6 months

- C. Ophthalmology---- Non-FDA-Approved Indications (off-label) (must meet all):
 - 1. Diagnosis of one of the following conditions (a-g):
 - a. Neovascular (wet) age-related macular degeneration;

Page 4 of 17

CLINICAL POLICY Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



- b. Macular edema following retinal vein occlusion;
- c. Diabetic macular edema;
- d. Proliferative diabetic retinopathy;
- e. Neovascular glaucoma;
- f. Choroidal neovascularization associated with: angioid streaks, no known cause, inflammatory conditions, high pathologic myopia, or ocular histoplasmosis syndrome;
- g. Diabetic retinopathy associated with ocular neovascularization (choroidal, retinal, iris);
- 2. Age \geq 18 years;

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- Request is for bevacizumab intravitreal solution;
 *Requests for IV formulations of Avastin, Mvasi, and Zirabev, <u>Alymsys, and Vegzelma</u> will not be approved
- 4. Request meets one of the following (a or b):
 - a. Dose does not exceed 2.5 mg per dose;
 - b. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

Approval duration:

Medicaid – 6 months

D. Other diagnoses/indications (must meet all):

- 1. For <u>Alymsys</u>, Avastin, or <u>Vegzelma</u> requests <u>for non-ophthalmology uses</u>, member meets one of the following (a or b):
 - a. Member must use Mvasi or Zirabev, unless both are contraindicated or clinically significant adverse effects are experienced;*
 - *Prior authorization may be required for Mvasi and Zirabev
 <u>b. Request is for Stage IV or metastatic cancer or associated conditions. Exception if</u>
 "clinically equivalent therapy, contains identical active ingredient(s), and proven
 - to have same efficacy. Request is for Stage IV or metastatic cancer for a state with regulations against
- step therapy in advance oncology settings (see Appendix E);
 If this drug has recently (within the last 6 months) undergone a label change (e.g.,
- newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255 2-3.If requested use (e.g., diagnosis, age, dosing regimen) Refer to the off label use
- <u>statistics</u> <u>s</u>

II. Continued Therapy

- A. All Indications in Section I (must meet all):
 - 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Louisiana Healthcare Connections benefit or member has previously met initial approval criteria;

Page 5 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



- b. Documentation supports that member is currently receiving <u>Alymsys</u>, Avastin, Mvasi, <u>Vegzelma</u>, or Zirabev for a covered oncology indication listed in section I and has received this medication for at least 30 days;
- 2. Member is responding positively to therapy;
- 3. For <u>Alymsys</u>, Avastin, or <u>Vegzelma</u> requests for non-ophthalmology uses, member meets one of the following (a or b):
 - a. Member must use Mvasi or Zirabev, unless both are contraindicated or clinically adverse effects are experienced;*
 - *Prior authorization may be required for Mvasi and Zirabev
 - b. Request is for Stage IV or metastatic cancer or associated conditions. Exception if "clinically equivalent therapy, contains identical active ingredient(s), and proven to have same efficacy.
- 4. If request is for a dose increase, request meets one of the following (a or b):*
 - a. New dose does not exceed 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks (*see Appendix F for dose rounding guidelines*);
 - b. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).
- *Prescribed chemotherapy regimen must be FDA-approved or recommended by NCCN Approval duration:
- Medicaid 6 months

B. Other diagnoses/indications (must meet 1 and or either 2 or 3):

- 1. For <u>Alymsys</u>, Avastin, or <u>Vegzelma</u> requests for non-ophthalmology uses, member meets one of the following (a or b):
 - a. Member must use Mvasi or Zirabev, unless both are contraindicated or clinically significant adverse effects are experienced;*
 - *Prior authorization may be required for Mvasi and Zirabev
 - b. Request is for Stage IV or metastatic cancer or associated conditions. Exception if "clinically equivalent therapy, contains identical active ingredient(s), and proven to have same efficacy.
- If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255Currently receiving medication via Louisiana Healthcare Connections benefit and documentation supports positive response to therapy.
- 3. If the requested use (e.g., diagnosis, age, dosing regimen) Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) <u>AND criterion 2 above does not apply, refer</u> to the off-label use policy: LA.PMN.53 for Medicaid
- <u>4.3.</u>

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policy – LA.PMN.53 for Medicaid, or evidence of coverage documents

IV. Appendices/General Information

Page 6 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



Appendix A: Abbreviation/Acronym Key 5-FU: fluorouracil FDA: Food and Drug Administration FOLFIRI: fluorouracil, leucovorin, irinotecan FOLFOX: fluorouracil, leucovorin, oxaliplatin HCC: hepatocellular carcinoma

HLRCC: hereditary leiomyomatosis and renal cell cancer IDH: isocitrate dehydrogenase gene NCCN: National Comprehensive Cancer Network NSCLC: non-small cell lung cancer PD-L1: programmed death-ligand 1 RCC: renal cell carcinoma

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may require prior authorization.

| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose | | |
|---|---|-----------------------------|--|--|
| Metastatic carcinoma of the colon or rectum | | | | |
| FOLFOX4 = Infusional 5- | Oxaliplatin 85 mg/m ² IV over 2 | Varies | | |
| FU/leucovorin/ oxaliplatin | hours day 1; leucovorin 200 | | | |
| | mg/m ² IV over 2 hours days 1 & | | | |
| | 2, followed by 5-FU 400 mg/m ² | | | |
| | IV bolus over 2-4 minutes, | | | |
| | followed by 600 mg/m ² IV 5-FU | | | |
| | continuous infusion over 22 | | | |
| | hours on days 1 & 2. Repeat | | | |
| | cycle every 14 days. | | | |
| FOLFIRI = | Camptosar 180 mg/m ² IV over 90 | Varies | | |
| Infusional 5-FU/ | minutes day 1; Leucovorin 400 | | | |
| leucovorin/Camptosar® | mg/m ² | | | |
| (irinotecan) | IV over 2 hours day 1 followed | | | |
| | by 5- FU 400 mg/m ² IV bolus | | | |
| | over 2-4 minutes, followed by | | | |
| | $2.4 \text{ gm/m}^2 \text{ IV 5- FU continuous}$ | | | |
| | infusion over 46 hours. Repeat | | | |
| | cycle every 14 days. | | | |
| capecitabine (Xeloda [®]) | $2500 \text{ mg/m}^2 \text{PO BID for 2 weeks;}$ | Varies | | |
| | repeat cycles of 2 weeks on | | | |
| | and 1 week off. | | | |
| | For patients who cannot | | | |
| | tolerate intensive therapy. | | | |
| IROX = oxaliplatin/ Camptosar | Oxaliplatin 85 mg/m ² IV followed | Varies | | |
| (irinotecan) | by Camptosar 200 mg m ² IV over | | | |
| | 30-90 minutes every 3 weeks | 37 . | | |
| Camptosar (irinotecan) | 180 mg/m^2 IV every 2 weeks or $200,250 \text{ mg/m}^2$ IV every 2 weeks or | Varies | | |
| L | $300-350 \text{ mg/m}^2$ IV every 3 weeks | Trifluriding 80 | | |
| Lonsurf [®] (trifluridine and tipiracil) | 35 mg/m^2 (based on trifluridine | Trifluridine 80 | | |

Page 7 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose | |
|--|--|-----------------------------|--|
| | component) PO BID on days 1-5 and 8-12, repeated every 28 days | mg/dose | |
| NSCLC | | | |
| Examples of drugs used in single- or multi-drug chemotherapy regimens: Cisplatin, carboplatin, paclitaxel docetaxel, vinorelbine, gemcitabine, etoposide, irinotecan, vinblastine, mitomycin, ifosfamide, pemetrexed disodium, (Alimta[®]) erlotinib (Tarceva[®]), Tecentriq[®] (atezolizumab) | Various doses | Varies | |
| Ovarian Cancer | | | |
| Examples of drugs used in single- or multi-drug chemotherapy regimens: carboplatin and paclitaxel, docetaxel and carboplatin, Lynparza[®] (olaparib), Zejula[®] (niraparib) | Various doses | Varies | |
| Glioblastoma Multiforme | | 1 | |
| temozolomide (Temodar®) | Maintenance phase cycles: 150 mg- 200 mg/m ² PO days 1-5. Repeat every 28 days. | Varies | |
| carmustine (Bicnu [®]) | 150 mg to 200 mg/m ² IV on day 1. Repeat every 6-8 weeks for one year or tumor progression. | Varies | |
| Cervical Cancer | | | |
| Examples of drugs used in multi- drug chemotherapy regimens: cisplatin/paclitaxel, carboplatin/paclitaxel, cisplatin/topotecan (Hycamtin[®]), topotecan/paclitaxel | Various doses | Varies | |

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings None reported

Appendix D: General Information

Page 8 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



- The FDA revoked the approval of the breast cancer indication for Avastin (bevacizumab) on November 18, 2011. Avastin used for metastatic breast cancer has not shown to provide a benefit, in terms of delay in the growth of tumors that would justify its serious and potentially life threatening risks. Nor is there evidence that use of Avastin will either help women with breast cancer live longer or improve their quality of life. More information at: <u>http://www.fda.gov/NewsEvents/Newsroom/ucm279485.htm</u>
 - Bevacizumab carries an off label NCCN category 2A recommendation for the treatment of metastatic breast cancer when used in addition to some first-or secondline chemotherapy agents. It has resulted in modest improvement of time to progression and response rates but has not improved overall survival. The time toprogression impact may vary among cytotoxic agents and appears greatest with bevacizumab in combination with weekly paclitaxel.
- Fatal pulmonary hemorrhage can occur in patients with NSCLC treated with chemotherapy and bevacizumab. The incidence of severe or fatal hemoptysis was 31% in patients with squamous histology and 2.3% with NSCLC excluding predominant squamous histology. Patients with recent hemoptysis should not receive bevacizumab.

| Weight-based Dose Range | Vial Quantity Recommendation |
|-------------------------|--|
| ≤ 104.99 mg | 1 vial of 100 mg/4 mL |
| 105 mg-209.99 mg | 2 vials of 100 mg/4 mL |
| 210 mg-314.99 mg | 3 vials of 100 mg/4 mL |
| 315 mg-419.99 mg | 1 vial of 400 mg/16 mL |
| 420 mg-524.99 mg | 1 vial of 100 mg/4 mL and 1 vial of 400 mg/16 mL |
| 525 mg-629.99 mg | 2 vials of 100 mg/4 mL and 1 vial of 400 mg/16 mL |
| 630 mg-734.99 mg | 3 vials of 100 mg/4 mL and 1 vial of 400 mg/16 mL |
| 735 mg-839.99 mg | 2 vials of 400 mg/16 mL |
| 840 mg-944.99 mg | 1 vials of 100 mg/4 mL and 2 vials of 400 mg/16 mL |
| 945 mg-1,049.99 mg | 2 vials of 100 mg/4 mL and 2 vials of 400 mg/16 mL |
| 1,050 mg-1,154.99 mg | 3 vials of 100 mg/4 mL and 2 vials of 400 mg/16 mL |
| 1,155 mg-1,259.99 mg | 3 vials of 400 mg/16 mL |
| 1,260 mg-1,364.99 mg | 1 vials of 100 mg/4 mL and 3 vials of 400 mg/16 mL |
| 1,365 mg-1,469.99 mg | 2 vials of 100 mg/4 mL and 3 vials of 400 mg/16 mL |
| 1,470 mg-1,574.99 mg | 3 vials of 100 mg/4 mL and 3 vials of 400 mg/16 mL |
| 1,575 mg-1,679.99 mg | 4 vials of 400 mg/16 mL |
| 1,680 mg-1,784.99 mg | 1 vials of 100 mg/4 mL and 4 vials of 400 mg/16 mL |
| 1,785 mg-1,889.99 mg | 2 vials of 100 mg/4 mL and 4 vials of 400 mg/16 mL |
| 1,890 mg-1,994.99 mg | 3 vials of 100 mg/4 mL and 4 vials of 400 mg/16 mL |
| 1,995 mg-2,099.99 mg | 5 vials of 400 mg/16 mL |

Appendix F: Dose Rounding Guidelines

Page 9 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



V. Dosage and Administration

| Indication | Dosing Regimen | Maximum Dose |
|--|--|--|
| Metastatic colorectal cancer | 5 mg/kg or 10 mg/kg once every 14 days as an IV infusion in combination with a 5-FU based chemotherapy regimen until disease progression is detected. 5 mg/kg every 2 weeks or 7.5 mg/kg every 3 weeks when used in combination with a fluoropyrimidine-irinotecan or fluoropyrimidine-oxaliplatin based chemotherapy regimen in patients who have progressed on a first-line Avastin- containing regimen | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |
| Non-squamous NSCLC | 15 mg/kg IV infusion every 3 weeks with carboplatin/paclitaxel | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |
| Ovarian cancer, stage III or IV disease following initial surgical resection | 15 mg/kg IV infusion every 3 weeks with carboplatin/paclitaxel for up to 6 cycles, followed by bevacizumab 15 mg/kg every 3 weeks as a single agent | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |
| Platinum resistant ovarian cancer | 10 mg/kg intravenously every 2weeks with weekly paclitaxel, liposomal doxorubicin, or topotecan | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |
| Platinum sensitive ovarian cancer | 15 mg/kg intravenously every 3 weeks with carboplatin and paclitaxel or with carboplatin and gemcitabine, followed by bevacizumab 15 mg/kg every 3 weeks as a single agent | 15 mg/kg IV every 3 weeks |
| НСС | 15 mg/kg IV every 3 weeks plus Tecentriq 1,200 mg IV on the same day | 15 mg/kg IV every 3 weeks |
| Clear cell renal carcinoma | 10 mg/kg IV every 2 weeks with interferon alfa | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |

Page 10 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



| Indication | Dosing Regimen | Maximum Dose |
|--|---|--|
| Glioblastoma multiforme, anaplastic astrocytoma, anaplastic oligodendroglioma | 10 mg/kg IV every 2 weeks | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |
| Soft tissue sarcoma | 15 mg/kg IV infusion every 3 weeks | 15 mg/kg IV every 3 weeks or 10 mg/kg |
| Cervical cancer | 15 mg/kg IV infusion every 3 weeks (in combination with paclitaxel and either cisplatin or topotecan) until disease progression or unacceptable toxicity | 15 mg/kg IV every 3 weeks or 10 mg/kg IV every 2 weeks |
| Neovascular (wet) macular degeneration | 1.25 to 2.5 mg administered by intravitreal injection every 4 weeks | 2.5 mg/dose |
| Neovascular glaucoma | 1.25 mg administered by intravitreal injection every 4 weeks | 2.5 mg/dose |
| Macular edema secondary to retinal vein occlusion | 1 mg to 2.5 mg administered by intravitreal injection every 4 weeks | 2.5 mg/dose |
| Proliferative diabetic retinopathy | 1.25 mg administer by intravitreal injection 5 to 20 days before vitrectomy | 2.5 mg/dose |
| Diabetic macular edema | 1.25 mg administered by intravitreal injection | 2.5 mg/dose |
| Malignant mesothelioma of pleura | 15 mg/kg IV (plus pemetrexed 500 mg/m(2) IV and cisplatin 75 mg/m(2) IV) every 21 days for up to 6 cycles, followed by maintenance bevacizumab 15 mg/kg every 21 days until disease progression or unacceptable toxicity. All patients should receive folic acid 400 mcg orally daily and vitamin B12 1000 mcg IM every 3 weeks, both beginning 7 days prior to pemetrexed and continuing for 3 weeks following the last pemetrexed dose (off-label dosage). | 2.5 mg/dose |

Page 11 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



| Indication | Dosing Regimen | Maximum Dose |
|------------------------------|---|---------------|
| Metastatic colorectal cancer | 7.5 mg/kg IV on day 1 with capecitabine | 15 mg/kg IV |
| in previously untreated | 1,000 mg/m2 orally twice daily on days | every 3 weeks |
| elderly patients ineligible | 1 to 14, given every 3 weeks until | or 10 mg/kg |
| for oxaliplatin- or | disease progression. | IV every 2 |
| irinotecan-based | | weeks. |

VI. Product Availability

Single-use vials: 100 mg/4 mL, 400 mg/16 mL

VII. References

- Avastin Prescribing Information. South San Francisco, CA: Genentech, Inc. January 2021. Available at: www.avastin.com. Accessed August <u>421</u>, 202<u>2</u>4.
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Page 12 of 17

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Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



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Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

| HCPCS | Description |
|------------------|---|
| Codes | |
| <u>C9257</u> | Injection, bevacizumab, 0.25 mg |
| J9035 | Injection, bevacizumab, 10 mg |
| <u>J9999</u> | Not otherwise classified, antineoplastic drugs |
| C9257 | Injection, bevacizumab, 0.25 mg |
| Q5107 | Injection, bevacizumab-awwb, biosimilar, (Mvasi), 10 mg |
| Q5118 | Injection, bevacizumab-bvcr, biosimilar, (Zirabev), 10 mg |
| <u>Q5126</u> | Injection, bevacizumab-maly, biosimilar, (alymsys), 10 mg |
| <u>Q5129</u> | Injection, bevacizumab-adcd (vegzelma), biosimilar, 10 mg |

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

The following is a list of diagnosis codes that support coverage for the applicable covered procedure code(s).

| ICD-10-CM Code | Description |
|------------------|--|
| A18.53 | Tuberculosis chorioretinitis |
| C17.0 - C17.9 | Malignant neoplasm of small intestine |
| C18.0 - C18.9 | Malignant neoplasm of colon |
| C19 | Malignant neoplasm of rectosigmoid junction |
| C20 | Malignant neoplasm of rectum |
| C21.8 | Malignant neoplasm of overlapping sites of rectum, anus and anal |
| | canal |
| C33 | Malignant neoplasm of trachea |
| C34.00 - C34.02 | Malignant neoplasm of main bronchus |
| C34.10 - C34.12 | Malignant neoplasm of upper lobe, bronchus or lung |
| C34.2 | Malignant neoplasm of middle lobe, bronchus or lung |
| C34.30 – C34.32 | Malignant neoplasm of lower lobe, bronchus or lung |
| C34.80 - C34.82 | Malignant neoplasm of overlapping sites of bronchus and lung |
| C34.90 - C34.92 | Malignant neoplasm of unspecified part of bronchus or lung |
| C48.0 - C48.8 | Malignant neoplasm of retroperitoneum and peritoneum |
| C49.0 - C49.9 | Malignant neoplasm of other connective and soft tissue |
| C50.01 - C50.929 | Malignant neoplasm of breast |
| C53.0 – C53.9 | Malignant neoplasm of cervix uteri |

Page 13 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



| ICD-10-CM Code | Description |
|----------------------|---|
| C54.0 - C55 | Malignant neoplasm of corpus uteri |
| C56.1 – C56.9 | Malignant neoplasm of ovary |
| C57.0 – C57.9 | Malignant neoplasm of other and unspecified female genital organs |
| C64.1 – C64.9 | Malignant neoplasm of kidney, except renal pelvis |
| C65.1 – C65.9 | Malignant neoplasm of renal pelvis |
| C70.0 - C70.9 | Malignant neoplasm of meninges |
| C71.0 – C71.9 | Malignant neoplasm of brain |
| C72.0 – C72.9 | Malignant of spinal cord, cranial neoplasm nerves and other parts |
| | of central nervous system |
| D32.0 - D32.9 | Benign neoplasm of meninges |
| D42.0 - D42.9 | Neoplasm of uncertain behavior of meninges |
| E08.311, | Diabetes mellitus due to underlying condition with |
| E08.3211 - E08.3219, | diabetic retinopathy with macular edema |
| E08.3311 - E08.3319, | |
| E08.3411 - E08.3419, | |
| E08.3511 – E08.3519 | |
| E09.311, | Drug or chemical induced diabetes mellitus with diabetic |
| E09.3211 - E09.3219, | retinopathy with macular edema |
| E09.3311 - E09.3319, | r y y y |
| E09.3411 - E09.3419, | |
| E09.3511 – E093519 | |
| E10.311, | Type 1 diabetes mellitus with diabetic retinopathy with |
| E10.3211 - E10.3219, | macular edema |
| E10.3311 - E10.3319, | |
| E10.3411 - E10.3419, | |
| E10.3511 - E10.3519 | |
| E11.311, | Type 2 diabetes mellitus with diabetic retinopathy with |
| E11.3211 - E11.3219, | macular edema |
| E11.3311 - E11.3319, | |
| E11.3411 – E11.3419, | |
| E11.3511 – E11.3519 | |
| E13.311, | Other specified diabetes mellitus with diabetic retinopathy |
| E13.3211 - E13.3219, | with macular edema |
| E13.3311 - E13.3319, | |
| E13.3411 – E13.3419, | |
| E13.3511 – E13.3519 | |
| H16.401 – H16.449 | Corneal neovascularization |
| H30.001 – H30.049 | Focal chorioretinal inflammation |
| H30.101 – H30.139 | Disseminated chorioretinal inflammation |
| H30.891 – H30.899 | Other chorioretinal inflammations |
| H30.90 – H30.93 | Unspecified chorioretinal inflammations |
| H32 | Chorioretinal disorders in diseases classified elsewhere |
| H34.8110 – H 34.8192 | Central retinal vein occlusion |
| H34.8310 – H34.8392 | Tributary (branch) retinal vein occlusion |

Page 14 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



| ICD-10-CM Code | Description |
|---------------------|---|
| H35.051 – H35.059 | Retinal neovascularization, unspecified |
| H35.141 – H35.169 | Retinopathy of prematurity, stages 3 through 5 |
| H35.3210 – H35.3293 | Exudative age-related macular degeneration |
| H35.33 | Angioid streaks of macula |
| H35.81 | Retinal edema |
| H40.50X0-H40.53X4 | Glaucoma secondary to other eye disorders [associated with vascular disorders of eye] |
| H44.20-H44.23 | Degenerative myopia |
| H44.2A1-H44.2A9 | Degenerative myopia with choroidal neovascularization |
| I67.89 | Other cerebrovascular disease |
| Z85.038 | Personal history of other malignant neoplasm of large intestine |
| Z85.048 | Personal history of other malignant neoplasm of |
| | rectum, rectosigmoid junction, and anus |
| Z85.068 | Personal history of other malignant neoplasm of small intestine |
| Z85.118 | Personal history of other malignant neoplasm of bronchus and lung |
| Z85.3 | Personal history of malignant neoplasm of breast |
| Z85.41 | Personal history of malignant neoplasm of cervix uteri |
| Z85.42 | Personal history of malignant neoplasm of other parts of uterus |
| Z85.43 | Personal history of malignant neoplasm of ovary |
| Z85.44 | Personal history of malignant neoplasm of other female |
| | genital organs |
| Z85.528 | Personal history of other malignant neoplasm of kidney |
| Z85.53 | Personal history of malignant neoplasm of renal pelvis |
| Z85.841 | Personal history of malignant neoplasm of brain |
| Z85.848 | Personal history of malignant neoplasm of other parts of |
| | nervous tissue |

| Reviews, Revisions, and Approvals | | LDH |
|---|-------|------------------|
| | | Approval Date |
| Converted corporate to local policy | 01.21 | 04.21 |
| FDA indication language updated for Zirabev to reflect expansion of | 04.22 | 07.23.22 |
| indication to include epithelial ovarian, fallopian tube, or primary | | |
| peritoneal cancer; amended language for ophthalmology non-FDA | | |
| approved indications to be: request is for bevacizumab intravitreal | | |
| solution; Applied redirection of Avastin to preferred biosimilars to | | |
| other diagnoses/indications; Added additional NCCN-supported | | |
| regimens and classifications for colorectal cancer, NSCLC, | | |
| glioblastoma, cervical cancer, and epithelial ovarian, fallopian tube, or | | |
| primary peritoneal cancer; added criterion that HCC be classified as | | |
| Child-Pugh class A disease per NCCN; added low-grade WHO grade | | |
| I glioma to NCCNsupported off-label indication; Updated with | | |

Page 15 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



| Reviews, Revisions, and Approvals | Date | LDH Approval Date |
|--|----------|-------------------------|
| Mvasi's FDAapproved indications of epithelial ovarian, fallopian tube, or primary peritoneal cancers. | | |
| Added newly FDA-approved biosimilar Alymsys to policy; generalized language for oncology redirection bypass. Added additional NCCN-supported indications of ampullary adenocarcinoma cancer, malignant peritoneal mesothelioma, and pediatric diffuse high-grade glioma; re-classified anaplastic gliomas to astrocytoma and oligodendroglioma per updated NCCN classification; removed breast cancer indication, WHO grade 2 glioma indication, and single-agent therapy option for cervical cancer per NCCN; removed "radiographic and/or clinical relapse", "recurrent", and "carcinosarcoma with BRCA 1/2 mutation" disease qualifiers for ovarian cancer as there are other clinical scenarios per NCCN; added new regimens for cervical and colorectal cancers per NCCN; references reviewed and updated. Template changes applied to other diagnoses/indications and continued therapy section. Added HCPCS codes C9142, Q5126, Q5129 Added Vegzelma biosimilar to policy. Added blurb this policy is for medical benefit only. | 06.27.23 | |

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable LHCC administrative policies and procedures.

This clinical policy is effective as of the date determined by LHCC. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between

Page 16 of 17

Bevacizumab, Bevacizumab-awwb, Bevacizumab-bvzr, Bevacizumab-maly, Bevacizumab-adcd



the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. LHCC retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom LHCC has no control or right of control. Providers are not agents or employees of LHCC.

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Page 17 of 17