

STANDARD MEDICARE PART B MANAGEMENT

AVASTIN (bevacizumab) – Oncology MVASI (bevacizumab-awwb) – Oncology ZIRABEV (bevacizumab-bvzr) – Oncology

POLICY

I. INDICATIONS

The indications below including FDA-approved indications and compendial uses are considered a covered benefit provided that all the approval criteria are met and the member has no exclusions to the prescribed therapy.

A. FDA-Approved Indications

1. Metastatic colorectal cancer (mCRC)
 - a. Avastin/Mvasi/Zirabev, in combination with intravenous fluorouracil-based chemotherapy, is indicated for the first- or second-line treatment of patients with metastatic colorectal cancer.
 - b. Avastin/Mvasi/Zirabev in combination with fluoropyrimidine-irinotecan- or fluoropyrimidine-oxaliplatin-based chemotherapy, is indicated for the second-line treatment of patients with metastatic colorectal cancer who have progressed on a first-line Avastin/Mvasi/Zirabev-containing regimen.
2. First-line non-squamous non-small cell lung cancer (NSCLC)
Avastin/Mvasi/Zirabev, in combination with carboplatin and paclitaxel, is indicated for the first-line treatment of patients with unresectable, locally advanced, recurrent or metastatic non-squamous non-small cell lung cancer.
3. Recurrent glioblastoma (GBM)
Avastin/Mvasi/Zirabev is indicated for the treatment of recurrent glioblastoma in adults.
4. Metastatic renal cell carcinoma (mRCC)
Avastin/Mvasi/Zirabev, in combination with interferon alfa, is indicated for the treatment of metastatic renal cell carcinoma.
5. Persistent, recurrent, or metastatic cervical cancer
Avastin/Mvasi/Zirabev, in combination with paclitaxel and cisplatin or paclitaxel and topotecan, is indicated for the treatment of patients with persistent, recurrent, or metastatic cervical cancer.
6. Epithelial ovarian, fallopian tube, or primary peritoneal cancer
 - a. Avastin, in combination with carboplatin and paclitaxel, followed by Avastin as a single agent, is indicated for the treatment of patients with stage III or IV epithelial ovarian, fallopian tube, or primary peritoneal cancer following initial surgical resection.
 - b. Avastin, in combination with paclitaxel, pegylated liposomal doxorubicin, or topotecan, is indicated for the treatment of patients with platinum-resistant recurrent epithelial ovarian, fallopian tube or primary peritoneal cancer who received no more than 2 prior chemotherapy regimens.
 - c. Avastin, in combination with carboplatin and paclitaxel, or with carboplatin and gemcitabine, followed by Avastin as a single agent, is indicated for the treatment of patients with platinum-sensitive recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer.
7. Hepatocellular carcinoma

Avastin, in combination with atezolizumab, is indicated for the treatment of patients with unresectable or metastatic hepatocellular carcinoma (HCC) who have not received prior systemic therapy.

B. Compendial Uses

1. Advanced gastric cancer
2. Advanced liver carcinoma
3. Breast cancer for recurrent or stage IV (M1) human epidermal growth factor receptor 2 (HER2)-negative disease
4. Central nervous system (CNS) cancers
 - i. Low-grade (WHO Grade II) infiltrative supratentorial astrocytoma/oligodendroglioma
 - ii. Intracranial and spinal ependymoma (excludes subependymoma)
 - iii. Anaplastic glioma
 - iv. Medulloblastoma
 - v. Primary central nervous system lymphoma
 - vi. Meningiomas
 - vii. Limited and extensive brain metastases
 - viii. Metastatic spine tumors
5. Necrosis of central nervous system due to exposure to ionizing radiation
6. Malignant pleural mesothelioma
7. Ovarian cancer/Fallopian tube cancer/Primary peritoneal cancer
 - i. Carcinosarcoma (malignant mixed Müllerian tumors)
 - ii. Clear cell carcinoma
 - iii. Mucinous carcinoma
 - iv. Malignant sex cord-stromal tumors
 - v. Grade 1 endometrioid carcinoma
 - vi. Low-grade serous carcinoma
 - vii. Ovarian borderline epithelial tumors (low malignant potential) with invasive implants
8. Soft tissue sarcoma
 - i. Angiosarcoma
 - ii. Solitary fibrous tumor/Hemangiopericytoma
9. Uterine neoplasms/Endometrial carcinoma
10. Vulvar squamous cell carcinoma
11. Small bowel adenocarcinoma

C. Nationally Covered Indication

CMS covers Avastin for use in specific clinical trials (NCI-CMS Pilot Project). Refer to the Appendix for a list of these covered clinical trials.

All other indications will be assessed on an individual basis. Submissions for indications other than those enumerated in this policy should be accompanied by supporting evidence from Medicare approved compendia.

II. CRITERIA FOR INITIAL APPROVAL

A. **Colorectal cancer**

Authorization of 12 months may be granted for treatment of colorectal cancer.

B. **Non-small cell lung cancer**

Authorization of 12 months may be granted for treatment of non-small cell lung cancer.

C. Renal cell cancer

Authorization of 12 months may be granted for treatment of renal cell cancer.

D. Cervical cancer

Authorization of 12 months may be granted for treatment of cervical cancer.

E. Ovarian cancer/Fallopian tube cancer/Primary peritoneal cancer

Authorization of 12 months may be granted for treatment of epithelial ovarian cancer, fallopian tube cancer, primary peritoneal cancer, carcinosarcoma (malignant mixed Müllerian tumors), clear cell carcinoma, mucinous carcinoma, grade 1 endometrioid carcinoma, low-grade serous carcinoma, ovarian borderline epithelial tumors (low malignant potential) with invasive implants or malignant sex cord-stromal tumors.

F. Hepatocellular carcinoma

Authorization of 12 months may be granted for treatment of hepatocellular carcinoma, in combination with atezolizumab.

G. Gastric cancer

Authorization of 12 months may be granted for treatment of gastric cancer.

H. Liver cancer

Authorization of 12 months may be granted for treatment of liver cancer.

I. Central nervous system (CNS) cancer

Authorization of 12 months may be granted for treatment of glioblastoma, intracranial and spinal ependymoma (excluding subependymoma), anaplastic glioma, low-grade (WHO Grade II) infiltrative supratentorial astrocytoma/oligodendroglioma, medulloblastoma, primary central nervous system lymphoma, meningiomas, limited and extensive brain metastases, or metastatic spine tumors.

J. Necrosis of central nervous system due to exposure to ionizing radiation

Authorization of 3 months may be granted for treatment of central nervous system necrosis due to exposure to ionizing radiation.

K. Uterine neoplasms/Endometrial carcinoma

Authorization of 12 months may be granted for treatment of uterine neoplasms or endometrial carcinoma.

L. Malignant pleural mesothelioma

Authorization of 12 months may be granted for treatment of malignant pleural mesothelioma.

M. Breast cancer

Authorization of 12 months may be granted for treatment of breast cancer.

N. Soft tissue sarcoma

Authorization of 12 months may be granted for treatment of angiosarcoma or solitary fibrous tumor/hemangiopericytoma.

O. Vulvar cancer

Authorization of 12 months may be granted treatment of vulvar cancer/squamous cell carcinoma.

P. Small bowel adenocarcinoma

Authorization of 12 months may be granted for treatment of small bowel adenocarcinoma.

Q. NCD indications

Authorization of 12 months may be granted for treatment of patients enrolled in any of the studies listed in the Appendix section.

III. CONTINUATION OF THERAPY

All members (including new members) requesting authorization for continuation of therapy must be currently receiving therapy with the requested agent.

A. Authorization for 3 months may be granted when all of the following criteria are met:

1. The member is currently receiving therapy with Avastin, Mvasi, or Zirabev
2. Avastin, Mvasi, or Zirabev is being used to treat central nervous system necrosis due to exposure to ionizing radiation
3. The medication has been effective for treating the diagnosis or condition.

B. Authorization for 12 months may be granted when all of the following criteria are met:

1. The member is currently receiving therapy with Avastin, Mvasi, or Zirabev
2. Avastin, Mvasi, or Zirabev is being used to treat an indication enumerated in Section II (excluding central nervous system necrosis due to exposure to ionizing radiation)
3. The medication has been effective for treating the diagnosis or condition.

IV. APPENDIX

NCI/CTEP-Sponsored Studies Selected for Inclusion in NCI-CMS Pilot Project (Studies in Various Stages of Development)

| Study ID # | Study Title |
|------------|---|
| C80405 | Phase III Trial of Irinotecan/5-FU/Leucovorin or Oxaliplatin/5FU/Leucovorin with Bevacizumab, or Cetuximab, or with the combination of Bevacizumab and Cetuximab for Patients with Untreated Metastatic Adenocarcinoma of the Colon or Rectum |
| E2204 | An Intergroup Randomized Phase II Study of Bevacizumab or Cetuximab in Combination with Gemcitabine and in Combination with Chemoradiation (Capecitabine and Radiation) in Patients with Completely-Resected Pancreatic Carcinoma |
| E4203 | Phase II Study of Treatment Selection Based Upon Tumor Thymidylate Synthase Expression in Previously Untreated Patients with Metastatic Colorectal Cancer |

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| E5202 | Randomized Phase III Study Comparing 5-FU, Leucovorin and Oxaliplatin versus 5-FU, Leucovorin, Oxaliplatin and Bevacizumab in Patients with Stage II Colon Cancer at High Risk for Recurrence to Determine Prospectively the Prognostic Value of Molecular Markers |
| E5204 | Intergroup Randomized Phase III Study of Post-Operative Oxaliplatin, 5-Fluorouracil and Leucovorin with or without Bevacizumab in Patients with Stage II or III Rectal Cancer Receiving Pre-Operative Radiation and a 5-Fluorouracil-Based Regimen |
| NSABP-R-04 | A Clinical Trial Comparing Preoperative Radiation Therapy and Capecitabine with or without Oxaliplatin with Preoperative Radiation Therapy and Continuous Intravenous Infusion 5-Fluorouracil with or without Oxaliplatin in the Treatment of Patients with Operable Carcinoma of the Rectum |
| RTOG-0522 | Phase III Trial of Concurrent Accelerated Radiation & Cisplatin vs Concurrent Accelerated Radiation, Cisplatin, & Cetuximab (Followed by Surgery for Selected Patients) for Stage III & IV Head & Neck Carcinomas |
| S0502 | Phase III Randomized Study of Imatinib, with or without Bevacizumab, in Patients with Metastatic or Unresectable Gastrointestinal Stromal Tumors |
| 7325 | Dose-Dense and Dose-Intense Alternating Irinotecan/Capecitabine & Oxaliplatin/Capecitabine: Phase I in Solid Tumors and Phase II with Bevacizumab as First-Line Therapy of Advanced Colorectal Cancer |

V. REFERENCES

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6. National Coverage Determination (NCD) for Anti-cancer Chemotherapy for Colorectal Cancer (110.17) Version 1. <https://www.cms.gov/medicare-coverage-database/details/ncd-details.aspx?NCDId=291&ncdver=1&kc=dc634fd6-c&bc=AAAAAaAAAAAA%3d%3d&>. Accessed November 25, 2020.
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