Clinical Policy: Tisotumab vedotin-tftv (Tivdak)

Reference Number: CP.PHAR.561
Effective Date: 12.01.21
Last Review Date: 11.21
Line of Business: Commercial, HIM, Medicaid

Coding Implications
Revision Log

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

Description

Tisotumab vedotin-tftv (Tivdak™) is a tissue factor directed antibody and microtubule inhibitor conjugate.

FDA Approved Indication(s)

Tivdak is indicated for the treatment of adult patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy.

This indication is approved under accelerated approval based on tumor response rate and durability of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.

Policy/Criteria

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 health plans affiliated with Centene Corporation® that Tivdak is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Cervical Cancer (must meet all)**:**

1. Diagnosis of cervical cancer;
2. Disease is recurrent or metastatic;
3. Prescribed by or in consultation with an oncologist;
4. Age ≥ 18 years;
5. Member has received no more than two prior systemic regimens in the recurrent or metastatic setting;
6. Failure of single-agent or combination chemotherapy regimen, with or without bevacizumab (e.g., cisplatin/paclitaxel/bevacizumb, cisplatin/paclitaxel, cisplatin alone), unless contraindicated or clinically significant adverse effects are experienced;
7. Documentation of member's current weight in kilograms;
8. Request meets one of the following (a or b):*
   a. Dose does not exceed 2 mg/kg (up to a maximum dose of 200 mg for members ≥ 100 kg) every 3 weeks;
   b. Dose 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: 6 months

B. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Cervical Cancer (must meet all)**:**

1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Tivdak for a covered indication and has received this medication for at least 30 days;
2. Member is responding positively to therapy;
3. Member is receiving at least 0.9 mg/kg every 3 weeks;
4. Documentation of member's current weight in kilograms;
5. If request is for a dose increase, request meets one of the following (a or b):*
   a. New dose does not exceed 2 mg/kg (up to a maximum dose of 200 mg for patients ≥ 100 kg) every 3 weeks;
   b. New dose 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: 12 months

III. Appendices/General Information

Appendix A: Abbreviation/Acronym Key
FDA: Food and Drug Administration

Appendix B: Therapeutic Alternatives
This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
paclitaxel/cisplatin ± bevacizumab (Avastin®, Mvasi®, Zirabev™)	• Paclitaxel: 135 mg/m2 or 175 mg/m2 IV on Day 1 • Cisplatin: 50 mg/m^2 IV on Day 1 or 2 • With or without bevacizumab: 15 mg/kg IV on day Repeat every 3 weeks until disease progression or unacceptable toxicity	Varies
paclitaxel/carboplatin ± bevacizumab (Avastin®, Mvasi®, Zirabev™)	• Paclitaxel 135 mg/m^2 IV over 3 hours • Carboplatin target AUC 5 IV • With or without bevacizumab: 15 mg/kg IV on day	Varies

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
	Repeat every 3 weeks until disease progression or unacceptable toxicity	
topotecan (Hycamtin®) /paclitaxel ± bevacizumab (Avastin®, Mvasi®, Zirabev™)	• Paclitaxel: 175 mg/m^2 on day 1 • Topotecan: 0.75 mg/m^2 on days 1,2, and 3 • With or without bevacizumab: 15 mg/kg IV on day Repeat every 3 weeks until disease progression or unacceptable toxicity	Varies
paclitaxel/cisplatin	• Paclitaxel: 135 mg/m^2 over 24 hours • Cisplatin: 50 mg/m^2 on day 1 Repeat every 3 weeks for a maximum of 6 cycles in non-responders or until disease progression or unacceptable toxicity	Varies
paclitaxel/carboplatin	• Paclitaxel 135 mg/m^2 IV over 3 hours on day 1 until disease progression or unacceptable toxicity • Carboplatin: Target AUC 5 IV every 3 weeks for 6 to 9 cycles	Varies
cisplatin/topotecan (Hycamtin®)	• Cisplatin: 50 mg/m^2 IV on day 1 • Topotecan: 0.75 mg/m^2/day IV for days 1,2, and 3 Repeat every 3 weeks for a maximum of 6 cycles in nonresponders or until disease progression or unacceptable toxicity	Varies
paclitaxel/topotecan (Hycamtin®)	• Paclitaxel: 175 mg/m^2 on day 1 • Topotecan: 0.75 mg/m^2 on days 1,2, and 3 Repeat every 3 weeks until disease progression or unacceptable toxicity	Varies
cisplatin	40 mg/m^2 over 4 hours to radiation therapy on days 1,8,15,22,29 and 36	Varies
carboplatin	400 mg/m^2 on day 1 every 28 days	Varies
paclitaxel	Varies	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

- Contraindication(s): None reported

- Boxed warning(s): Ocular toxicity; Tidvak caused changes in the corneal epithelium and conjunctive resulting in changes in vision, including severe vision loss, and corneal ulceration.

IV. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Cervical cancer	2 mg/kg IV over 30 minutes every 3 weeks until disease progression or unacceptable toxicity	2mg/kg, 200 mg for members ≥ 100kg

V. Product Availability

Intravenous powder for solution, single-dose vial: 40 mg

VI. References

1. Tivdak Prescribing Information. Bothell, WA: Seagen Inc.; September 2021. Available at: https://www.tivdakhcp.com. Accessed October 18, 2021.
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7. Tewari KS, Sill MW, Penson RT, et al. Bevacizumab for advanced cervical cancer: final overall survival and adverse event analysis of a randomised, controlled, open-label, phase 3 trial (Gynecologic Oncology Group 240). Lancet. 2017;390(10103):1654-1663.
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11. Rose PG, Ali S, Watkins E, et al. Long-term follow-up of a randomized trial comparing concurrent single agent cisplatin, cisplatin-based combination chemotherapy, or hydroxyurea during pelvic irradiation for locally advanced cervical cancer: a Gynecologic Oncology Group Study. J Clin Oncol. 2007;25(19):2804-2810. doi:10.1200/JCO.2006.09.4532.

12. Weiss GR, Green S, Hannigan EV, et al. A phase II trial of carboplatin for recurrent or metastatic squamous carcinoma of the uterine cervix: a Southwest Oncology Group study. Gynecol Oncol. 1990;39(3):332-336.

Coding Implications

HCPCS Codes	Description
C9399, J9999	Injection, tisotumab vedotin, ## mg

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	10.18.21	11.21

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. The Health Plan 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. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

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 Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. 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 the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan 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 the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

Note:
For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.