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## I. Length of Authorization

Coverage will be provided for 6 months and may be renewed.

## II. Dosing Limits

- A. Quantity Limit (max daily dose) [NDC Unit]:
  - Hycamtin 4 mg powder for injection single-dose vial: 2 vials per 7 days

#### B. Max Units (per dose and over time) [HCPCS Unit]:

#### **Cervical Cancer**

- 120 units every 21 days

# Bone Cancer – Ewing Sarcoma and Osteosarcoma & Soft Tissue Sarcoma – Non-Pleomorphic Rhabdomyosarcoma

- 200 units every 21 days

#### **Leptomeningeal Metastases**

- Induction: 80 units weekly x 6 weeks
- Consolidation: 40 units weekly x 6 weeks
- Maintenance: 80 units monthly x 4 months
- Extended Maintenance: 40 units monthly

#### All other Indications

- 200 units every 21 days

## III. Initial Approval Criteria

Coverage is provided in the following conditions:

Cervical Cancer † ‡ 1,2

Ovarian Cancer (including Epithelial, Primary Peritoneal and Fallopian Tube Cancers) † ‡ <sup>1,2</sup> Small Cell Lung Cancer (SCLC) † <sup>1,2</sup>

Bone Cancer – Ewing Sarcoma and Osteosarcoma ‡<sup>2</sup>

CNS Cancers – Leptomeningeal Metastases ‡<sup>2</sup>

#### Merkel Cell Carcinoma ‡<sup>2</sup>

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# Soft Tissue Sarcoma – Non-Pleomorphic Rhabdomyosarcoma ‡ <sup>2</sup> Uterine Neoplasms – Endometrial Carcinoma ‡ <sup>2</sup>

FDA Approved Indication(s); Compendia recommended indication(s); Orphan Drug

# IV. Renewal Criteria<sup>1</sup>

Coverage can be renewed based upon the following criteria:

- Patient continues to meet indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified in section III; **AND**
- Disease response with treatment as defined by stabilization of disease or decrease in size of tumor or tumor spread; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: myelosuppression (neutropenia, thrombocytopenia, anemia), interstitial lung disease, extravasation and tissue injury, etc.

## V. Dosage/Administration <sup>1,7-9,11-13</sup>

Indication	Dose	
Cervical Cancer	Administer 0.75 mg/m²/day IV on days 1-3 of every 21-day cycle	
Bone Cancer – Ewing Sarcoma and Osteosarcoma; Soft Tissue Sarcoma – Non-Pleomorphic Rhabdomyosarcoma	Administer 0.75 mg/m²/day IV on days 1-5 of every 21-day cycle	
Ovarian Cancer; SCLC; Uterine Neoplasms – Endometrial Carcinoma		
CNS Cancer – Leptomeningeal Metastases	Administer 400 mcg intrathecally, twice weekly (every 3–4 days) for 6 weeks during induction, weekly for 6 weeks during consolidation, and twice monthly for 4 months and then monthly thereafter during maintenance.	
All other indications	Administer 1.5 mg/m²/day IV for 5 days; repeated every 21 days	

# VI. Billing Code/Availability Information

## HCPCS Code:

- J9351– Injection, topotecan, 0.1 mg: 1 billable unit = 0.1 mg
- NDC:
- Hycamtin\* 4 mg powder for injection, single-dose vial 00078-0674-xx

\*Generics available from numerous manufacturers

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## VII. References

- 1. Hycamtin [package insert]. East Hanover, NJ; Novartis Pharmaceuticals Corporation; October 2019. Accessed December 2022.
- 2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) for Topotecan. National Comprehensive Cancer Network, 2022. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed December 2022.
- 3. Traina TA, Sabbatini P, Aghajanian C, Dupont J. Weekly topotecan for recurrent endometrial cancer: a case series and review of the literature. Gynecol Oncol. 2004 Oct;95(1):235-41
- 4. Seung SK, Ross HJ. Phase II trial of combined modality therapy with concurrent topotecan plus radiotherapy followed by consolidation chemotherapy for unresectable stage III and selected stage IV non-small-lung cancer. Int J Radiat Oncol Biol Phys. 2009 Mar 1;73(3):802-9.
- Ramlau R, Gervais R, Krzakowski M, von Pawel J, Kaukel E, Abratt RP, Dharan B, Grotzinger KM, Ross G, Dane G, Shepherd FA. Phase III study comparing oral topotecan to intravenous docetaxel in patients with pretreated advanced non-small-cell lung cancer. J Clin Oncol. 2006 Jun 20;24(18):2800-7.
- Potter SLP, Berg S, Ingle AM, et al. Phase 2 clinical trial of intrathecal topotecan in children with refractory leptomeningeal leukemia: A Children's Oncology Group trial (P9962). Pediatr Blood Cancer 2012; 58: 362–365.
- 7. Groves MD, Glantz MJ, Chamberlain MC, et al. A multicenter phase II trial of intrathecal topotecan in patients with meningeal malignancies. Neuro Oncol. 2008 Apr; 10(2): 208–215.
- Hunold A, Weddeling N, Paulussen M, et al. Topotecan and cyclophosphamide in patients with refractory or relapsed Ewing tumors. Pediatr Blood Cancer. 2006 Nov;47(6):795-800. doi: 10.1002/pbc.20719.
- Saylors RL 3rd, Stine KC, Sullivan J, et al; Pediatric Oncology Group. Cyclophosphamide plus topotecan in children with recurrent or refractory solid tumors: a Pediatric Oncology Group phase II study. J Clin Oncol. 2001 Aug 1;19(15):3463-9. doi: 10.1200/JCO.2001.19.15.3463.
- 10. Pappo AS, Lyden E, Breneman J, et al. Up-front window trial of topotecan in previously untreated children and adolescents with metastatic rhabdomyosarcoma: an intergroup rhabdomyosarcoma study. J Clin Oncol. 2001 Jan 1;19(1):213-9. doi: 10.1200/JCO.2001.19.1.213.
- Wadler S, Levy DE, Lincoln ST, et al. Topotecan is an active agent in the first-line treatment of metastatic or recurrent endometrial carcinoma: Eastern Cooperative Oncology Group Study E3E93. J Clin Oncol. 2003 Jun 1;21(11):2110-4. doi: 10.1200/JCO.2003.12.093.

- 12. Miller DS, Blessing JA, Lentz SS, et al. A phase II trial of topotecan in patients with advanced, persistent, or recurrent endometrial carcinoma: a gynecologic oncology group study. Gynecol Oncol. 2002 Dec;87(3):247-51. doi: 10.1006/gyno.2002.6804.
- 13. Walterhouse DO, Lyden ER, Breitfeld PP, et al. Efficacy of topotecan and cyclophosphamide given in a phase II window trial in children with newly diagnosed metastatic rhabdomyosarcoma: a Children's Oncology Group study. J Clin Oncol. 2004 Apr 15;22(8):1398-403. doi: 10.1200/JCO.2004.05.184.

ICD-10	ICD-10 Description	
C33	Malignant neoplasm of trachea	
C34.00	Malignant neoplasm of unspecified main bronchus	
C34.01	Malignant neoplasm of right main bronchus	
C34.02	Malignant neoplasm of left main bronchus	
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus or lung	
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	
C40.00	Malignant neoplasm of scapula and long bones of unspecified upper limb	
C40.01	Malignant neoplasm of scapula and long bones of right upper limb	
C40.02	Malignant neoplasm of scapula and long bones of left upper limb	
C40.10	Malignant neoplasm of short bones of unspecified upper limb	
C40.11	Malignant neoplasm of short bones of right upper limb	
C40.12	Malignant neoplasm of short bones of left upper limb	
C40.20	Malignant neoplasm of long bones of unspecified lower limb	
C40.21	Malignant neoplasm of long bones of right lower limb	
C40.22	Malignant neoplasm of long bones of left lower limb	
C40.30	Malignant neoplasm of short bones of unspecified lower limb	

## Appendix 1 – Covered Diagnosis Codes

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ICD-10	ICD-10 Description	
C40.31	Malignant neoplasm of short bones of right lower limb	
C40.32	Malignant neoplasm of short bones of left lower limb	
C40.80	Malignant neoplasm of overlapping sites of bone and articular cartilage of unspecified limb	
C40.81	Malignant neoplasm of overlapping sites of bone and articular cartilage of right limb	
C40.82	Malignant neoplasm of overlapping sites of bone and articular cartilage of left limb	
C40.90	Malignant neoplasm of unspecified bones and articular cartilage of unspecified limb	
C40.91	Malignant neoplasm of unspecified bones and articular cartilage of right limb	
C40.92	Malignant neoplasm of unspecified bones and articular cartilage of left limb	
C41.0	Malignant neoplasm of bones of skull and face	
C41.1	Malignant neoplasm of mandible	
C41.2	Malignant neoplasm of vertebral column	
C41.3	Malignant neoplasm of ribs, sternum and clavicle	
C41.4	Malignant neoplasm of pelvic bones, sacrum and coccyx	
C41.9		
C48.0	Malignant neoplasm of bone and articular cartilage, unspecified	
C48.0	Malignant neoplasm of retroperitoneum Malignant neoplasm of specified parts of peritoneum	
C48.2	Malignant neoplasm of peritoneum, unspecified	
C48.8	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum	
C48.8 C49.0		
C49.0 C49.10	Malignant neoplasm of connective and soft tissue of head, face and neck Malignant neoplasm of connective and soft tissue of unspecified upper limb, including shoulder	
C49.10	Malignant neoplasm of connective and soft tissue of right upper limb, including shoulder	
C49.12	Malignant neoplasm of connective and soft tissue of left upper limb, including shoulder	
C49.20	Malignant neoplasm of connective and soft tissue of unspecified lower limb, including hip	
C49.21	Malignant neoplasm of connective and soft tissue of right lower limb, including hip	
C49.22	Malignant neoplasm of connective and soft tissue of left lower limb, including hip	
C49.3	Malignant neoplasm of connective and soft tissue of thorax	
C49.4	Malignant neoplasm of connective and soft tissue of abdomen	
C49.5	Malignant neoplasm of connective and soft tissue of pelvis	
C49.6	Malignant neoplasm of connective and soft tissue of trunk, unspecified	
C49.8	Malignant neoplasm of overlapping sites of connective and soft tissue	
C49.9	Malignant neoplasm of connective and soft tissue, unspecified	
C4A.0	Merkel cell carcinoma of lip	
C4A.10	Merkel cell carcinoma of unspecified eyelid, including canthus	
C4A.111	Merkel cell carcinoma of right upper eyelid, inc canthus	
C4A.112	Merkel cell carcinoma of right lower eyelid, inc canthus	
C4A.121	Merkel cell carcinoma of left upper eyelid, inc canthus	
C4A.122	Merkel cell carcinoma of left lower eyelid, inc canthus	
C4A.20	Merkel cell carcinoma of unspecified ear and external auricular canal	

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ICD-10	ICD-10 Description	
C4A.21	Merkel cell carcinoma of right ear and external auricular canal	
C4A.22	Merkel cell carcinoma of left ear and external auricular canal	
C4A.30	Merkel cell carcinoma of unspecified part of face	
C4A.31	Merkel cell carcinoma of nose	
C4A.39	Merkel cell carcinoma of other parts of face	
C4A.4	Merkel cell carcinoma of scalp and neck	
C4A.51	Merkel cell carcinoma of anal skin	
C4A.52	Merkel cell carcinoma of skin of breast	
C4A.59	Merkel cell carcinoma of other part of trunk	
C4A.60	Merkel cell carcinoma of unspecified upper limb, including shoulder	
C4A.61	Merkel cell carcinoma of right upper limb, including shoulder	
C4A.62	Merkel cell carcinoma of left upper limb, including shoulder	
C4A.70	Merkel cell carcinoma of unspecified lower limb, including hip	
C4A.71	Merkel cell carcinoma of right lower limb, including hip	
C4A.72	Merkel cell carcinoma of left lower limb, including hip	
C4A.8	Merkel cell carcinoma of overlapping sites	
C4A.9	Merkel cell carcinoma, unspecified	
C53.0	Malignant neoplasm of endocervix	
C53.1	Malignant neoplasm of exocervix	
C53.8	Malignant neoplasm of overlapping sites of cervix uteri	
C53.9	Malignant neoplasm of cervix uteri, unspecified	
C54.0	Malignant neoplasm of isthmus uteri	
C54.1	Malignant neoplasm of endometrium	
C54.2	Malignant neoplasm of myometrium	
C54.3	Malignant neoplasm of fundus uteri	
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	
C54.9	Malignant neoplasm of corpus uteri, unspecified	
C55	Malignant neoplasm of uterus, part unspecified	
C56.1	Malignant neoplasm of right ovary	
C56.2	Malignant neoplasm of left ovary	
C56.3	Malignant neoplasm of bilateral ovaries	
C56.9	Malignant neoplasm of unspecified ovary	
C57.00	Malignant neoplasm of unspecified fallopian tube	
C57.01	Malignant neoplasm of right fallopian tube	
C57.02	Malignant neoplasm of left fallopian tube	
C57.10	Malignant neoplasm of unspecified broad ligament	

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ICD-10	ICD-10 Description	
C57.11	Malignant neoplasm of right broad ligament	
C57.12	Malignant neoplasm of left broad ligament	
C57.20	Malignant neoplasm of unspecified round ligament	
C57.21	Malignant neoplasm of right round ligament	
C57.22	Malignant neoplasm of left round ligament	
C57.3	Malignant neoplasm of parametrium	
C57.4	Malignant neoplasm of uterine adnexa, unspecified	
C57.7	Malignant neoplasm of other specified female genital organs	
C57.8	Malignant neoplasm of overlapping sites of female genital organs	
C57.9	Malignant neoplasm of female genital organ, unspecified	
C78.00	Secondary malignant neoplasm of unspecified lung	
C78.01	Secondary malignant neoplasm of right lung	
C78.02	Secondary malignant neoplasm of left lung	
C79.31	Secondary malignant neoplasm of brain	
C79.32	Secondary malignant neoplasm of cerebral meninges	
C79.51	Secondary malignant neoplasm of bone	
C79.52	Secondary malignant neoplasm of bone marrow	
C7A.1	Malignant poorly differentiated neuroendocrine tumors	
C7B.1	Secondary Merkel cell carcinoma	
Z85.118	Personal history of other malignant neoplasm of bronchus and lung	
Z85.43	Personal history of malignant neoplasm of ovary	
Z85.821	Personal history of Merkel cell carcinoma	
Z85.830	Personal history of malignant neoplasm of bone	
Z85.831	Personal history of malignant neoplasm of soft tissue	

# Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD), Local Coverage Articles (LCAs) and Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. They can be found at: https://www.cms.gov/medicare-coverage-database/search.aspx. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCA/LCD): N/A

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	Medicare Part B Administrative Contractor (MAC) Jurisdictions				
Jurisdiction	Applicable State/US Territory	Contractor			
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC			
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC			
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)			
6	MN, WI, IL	National Government Services, Inc. (NGS)			
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.			
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)			
N (9)	FL, PR, VI	First Coast Service Options, Inc.			
J (10)	TN, GA, AL	Palmetto GBA, LLC			
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC			
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.			
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)			
15	КҮ, ОН	CGS Administrators, LLC			