### **CLINICAL POLICY**

Dexrazoxane



**Clinical Policy: Dexrazoxane (Totect)** 

Reference Number: PA.CP.PHAR.418

Effective Date: 01/2020 Last Review Date: 04/2024

Coding Implications
Revision Log

### **Description**

Dexrazoxane (Totect®) is a cytoprotective agent.

### **FDA Approved Indications**

Totect is indicated for:

- Reducing the incidence and severity of cardiomyopathy associated with doxorubicin administration in women with metastatic breast cancer who have received a cumulative doxorubicin dose of 300 mg/m² and who will continue to receive doxorubicin therapy to maintain tumor control. Do not use Totect with doxorubicin initiation.
- Treatment of extravasation resulting from intravenous anthracycline chemotherapy

### 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 PA Health & Wellness® that dexrazoxane and Totect is **medically necessary** when the following criteria are met:

### I. Initial Approval Criteria

- A. Doxorubicin-Induced Cardiomyopathy (must meet all):
- 1. Prescribed to reduce the incidence or severity of cardiomyopathy associated with doxorubicin;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. One of the following (a or b):
  - a. Age  $\geq$  18 years and member has received a cumulative doxorubicin dose of  $\geq$  300 mg/m<sup>2</sup>;
  - b. Prescribed for one of the following NCCN 2B or higher supported indications (i-vii):
    - i. Pediatric ALL and one of the following (1, 2 or 3):
      - 1) Ph-negative ALL (one of the following A or B):
        - A. As part of the DFCI ALL Protocol 11-001 or 16-001 in members with an anticipated cumulative anthracycline dose ≥ 250 mg/m² of doxorubicin equivalent or radiation with potential impact to the heart (e.g., radiation to chest, abdomen, spine, or total body irradiation);
        - B. Relapsed or refractory Ph-negative ALL;
      - 2) Relapsed or refractory Ph-positive in combination with Sprycel<sup>®</sup> (dasatinib) or imatinib (Gleevec<sup>®</sup>) as part of COG AALL1331 regimen with an anticipated cumulative anthracycline dose ≥ 250 mg/m<sup>2</sup> of doxorubicin equivalent or radiation with potential impact



to the heart (e.g., radiation to chest, abdomen, spine, or total body irradiation);

- ii. Pediatric aggressive mature B-cell lymphomas;
- iii. Pediatric Hodgkin lymphoma
- iv. Hodgkin lymphoma in adults age > 60 years or adults with poor performance status or substantial comorbidities, in combination with ABVD regimen (doxorubicin, bleomycin, vinblastine, dacarbazine) or CHOP regimen (cyclophosphamide, doxorubicin, vincristine, prednisone);
- v. Wilms Tumor (nephroblastoma) and member has a planned cumulative dose of doxorubicin  $\geq 150 \text{ mg/m}^2$ ;
- vi. Neuroblastoma;
- vii. Soft tissue sarcoma, and member has a planned cumulative dose of doxorubicin  $\geq 250 \text{ mg/m}^2$  (off-label);
- 4. Will be used concurrently with doxorubicin;
- 5. For Totect requests, member must use dexrazoxane, if available, unless contraindicated or clinically significant adverse effects are experienced;
- 6. Request meets one of the following (a or b):
  - Dose does not exceed 10 times the dose of doxorubicin (e.g., dexrazoxane 500 mg/m² for member receiving doxorubicin 50 mg/m²) given with each doxorubicin dose;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### Approval duration: 12 months or duration of doxorubicin therapy, whichever is less

### **B.** Anthracycline-Induced Extravasation (must meet all):

- 1. Diagnosis of anthracycline-induced extravasation;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. Age  $\geq$  18 years;
- 4. Request meets one of the following (a or b):
  - a. Dose does not exceed 2,000 mg per day on days 1 and 2, and 1,000 mg on day 3.
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 3 days**

### C. Other diagnoses/indications

1. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

# **II. Continued Therapy**

### A. Doxorubicin-Induced Cardiomyopathy (must meet all):

- Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
- 2. Member continues to receive doxorubicin;
- 3. Member is responding positively to therapy;



- 4. For Totect requests, member must use dexrazoxane, if available, unless contraindicated or clinically significant adverse effects are experienced;
- 5. Request meets one of the following (a or b):
  - a. Dose does not exceed 10 times the dose of doxorubicin (e.g., dexrazoxane 500 mg/m² for member receiving doxorubicin 50 mg/m²) given with each doxorubicin dose;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

Approval duration: 12 months or duration of doxorubicin therapy, whichever is less

### **B.** Anthracycline-Induced Extravasation

1. Re-authorization is not permitted. Member must meet the initial approval criteria. **Approval duration: Not applicable** 

### **C. Other diagnoses/indications** (must meet 1 or 2):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies.
  - Approval duration: Duration of request or 6 months (whichever is less); or
- 2. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

# 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 policies – PA.CP.PMN.53.

### IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key ALL: acute lymphoblastic leukemia FDA: Food and Drug Administration

Appendix B: Therapeutic Alternatives

Not applicable

Appendix C: Contraindications/Boxed Warnings

• None reported

### V. Dosage and Administration

Indication	Dosing Regimen	<b>Maximum Dose</b>
Doxorubicin-	Give dexrazoxane at a ratio of 10:1 with the	Not applicable
induced	doxorubicin dose as an IV infusion over 15	
cardiomyopathy	minutes and within 30 minutes before	
	doxorubicin is given.	



Indication	Dosing Regimen	<b>Maximum Dose</b>
Anthracycline-	Day 1: 1,000 mg/m <sup>2</sup>	Day 1: 2,000 mg
induced	Day 2: 1,000 mg/m <sup>2</sup>	Day 2: 2,000 mg
extravasation	Day 3: 500 mg/m <sup>2</sup>	Day 3: 1,000 mg
	Give Totect as an IV infusion over 1-2 hours and	
	within 6 hours of extravasation.	
	Treatment on days 2 and 3 should start at the	
	same hour (+/-3 hours) as day 1.	

### VI. Product Availability

Single-dose vial, IV powder for solution: 500 mg

### VII. References

- 1. Totect Prescribing Information. Yardville, PA: Clinigen, Inc; November 2020. Available at: https://www.accessdata.fda.gov/drugsatfda\_docs/label/2020/022025s019lbl.pdf.. Accessed February 12, 2024.
- 2. American Society of Clinical Oncology 2008 Clinical Practice Guideline Update: Use of Chemotherapy and Radiation Therapy Protectants. Available at: <a href="http://ascopubs.org/doi/pdf/10.1200/JCO.2008.17.2627">http://ascopubs.org/doi/pdf/10.1200/JCO.2008.17.2627</a>. J Clin Oncol; 27:127-145.
- 3. Choi HS, Park ES, Kang HJ, et al. Dexrazoxane for preventing anthracycline cardiotoxicity in children with solid tumors. J Korean Med Sci. 2010;25(9):1336-42.
- 4. Asselin BL, Devidas M, Chen L, et al. Cardioprotection and Safety of Dexrazoxane in Patients Treated for Newly Diagnosed T-Cell Acute Lymphoblastic Leukemia or Advanced-Stage Lymphoblastic Non-Hodgkin Lymphoma: A Report of the Children's Oncology Group Randomized Trial Pediatric Oncology Group 9404. J Clin Oncol. 2016;34(8):854-62.
- 5. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: https://nccn.org/. Accessed February 12, 2024.
- 6. National Comprehensive Cancer Network. Pediatric Aggressive Mature B-Cell Lymphomas Version 1.2023. Available at: <a href="https://www.nccn.org/professionals/physician\_gls/pdf/ped\_b-cell.pdf">https://www.nccn.org/professionals/physician\_gls/pdf/ped\_b-cell.pdf</a>. Accessed February 12, 2024.
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- 9. National Comprehensive Cancer Network. Wilms Tumor (Nephroblastoma) Version 1.2023. Available at: <a href="https://www.nccn.org/professionals/physician\_gls/pdf/wilms\_tumor.pdf">https://www.nccn.org/professionals/physician\_gls/pdf/wilms\_tumor.pdf</a>. Accessed February 12, 2024.
- 10. National Comprehensive Cancer Network. Soft Tissue Sarcoma Version 2.2022. Available at https://www.nccn.org/professionals/physician\_gls/pdf/sarcoma.pdf. Accessed February 12, 2024.
- 11. National Comprehensive Cancer Network. Neuroblastoma Version 1.2024. Available at: https://www.nccn.org/professionals/physician\_gls/pdf/neuroblastoma.pdf. Accessed February 12, 2024.



# **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-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

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HCPCS	Description	
Codes		
J1190	Injection, dexrazoxane, 250 mg	

Reviews, Revisions, and Approvals	Date
Policy created	01/2020
1Q 2021 annual review: updated policy in response to expansion of Totect	01/2021
FDA indication for doxorubicin toxicity, which overlaps with Zinecard;	
references reviewed and updated	
2Q 2021 annual review: updated section V dosing to include Totect for the	04/2021
indication of doxorubicin-induced cardiomyopathy; references reviewed and	
updated.	
2Q 2022 annual review: per NCCN added off-label supported uses in	04/2022
patients under 18 years of age in Ph-negative ALL, aggressive mature B-cell	
lymphomas, Hodgkin lymphoma, or Wilms Tumor (nephroblastoma);	
removed appendix D that provided references to studies with inconclusive	
doxorubicin thresholds for use in pediatric patients as such use is supported	
by NCCN; references reviewed and updated.	
2Q 2023 annual review: updated FDA approved indication to mirror PI;	04/2023
clarified that use is limited to the pediatric population for Ph-negative ALL	
and Hodgkin lymphoma; added off-label use for soft tissue sarcoma to	
criteria under doxorubicin-induced cardiomyopathy per NCCN 2A	
recommendation; removed Zinecard from policy as product has been	
discontinued; reference reviewed and updated.	
2Q 2024 annual review: for doxorubicin-induced cardiomyopathy, added	04/2024
redirection to generic dexrazoxane, added the following NCCN 2A	
indications: relapsed/refractory Ph-positive ALL, Hodgkin lymphoma in	
adults age > 60 years, and neuroblastoma; references reviewed and updated	