

## **Clinical Policy: Thalidomide (Thalomid)**

Reference Number: CP.PHAR.78

Effective Date: 09.01.11

Last Review Date: 05.22

Line of Business: Commercial, HIM, Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

### **Description**

Thalidomide (Thalomid<sup>®</sup>) is an immunomodulatory agent.

### **FDA Approved Indication(s)**

Thalomid is indicated:

- For the treatment of patients with newly diagnosed multiple myeloma (MM) in combination with dexamethasone
- For the acute treatment of the cutaneous manifestations of moderate to severe erythema nodosum leprosum (ENL)
- As maintenance therapy for prevention and suppression of the cutaneous manifestations of ENL recurrence

Limitation(s) of use: Thalomid is not indicated as monotherapy for such ENL treatment in the presence of moderate to severe neuritis.

### **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<sup>®</sup> that Thalomid is **medically necessary** when the following criteria are met:

#### **I. Initial Approval Criteria**

##### **A. Multiple Myeloma (must meet all):**

1. Diagnosis of MM;
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age  $\geq$  12 years;
4. Prescribed in combination with dexamethasone;
5. Thalomid is not prescribed concurrently with Revlimid<sup>®</sup> or Pomalyst<sup>®</sup>;
6. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
7. Request meets one of the following (a or b):\*
  - a. Dose does not exceed 200 mg (1 capsule) per day;
  - 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. Erythema Nodosum Leprosum (must meet all):**

1. Diagnosis of ENL;
2. Prescribed by or in consultation with an infectious disease specialist, immunologist, or dermatologist;
3. Age  $\geq$  12 years;
4. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;
5. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
6. Dose does not exceed 400 mg (2 capsules) per day.

**Approval duration: 6 months**

**C. Myeloproliferative Neoplasms (off-label) (must meet all):**

1. Diagnosis of myeloproliferative neoplasms (myelofibrosis) with associated anemia;
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age  $\geq$  12 years;
4. Member meets one of the following (a or b):
  - a. Serum EPO  $\geq$  500 mU/mL;
  - b. Serum EPO  $<$  500 mU/mL, and no response or loss of response to erythropoietic stimulating agents (ESA; *Retacrit*<sup>®</sup> is preferred)\*;

*\*Prior authorization may be required*

5. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;
6. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
7. Request meets one of the following (a or b):\*
  - a. Dose does not exceed 400 mg (2 capsules) per day;
  - 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**

**D. Castleman's Disease (off-label) (must meet all):**

1. Diagnosis of multicentric Castleman's disease (MCD);
2. Prescribed by or in consultation with an oncologist;
3. Age  $\geq$  12 years;
4. Request is for one of the following (a or b):
  - a. Active idiopathic MCD without organ failure, and all of the following must be met (i, ii, and iii):
    - i. Human immunodeficiency virus (HIV) negative;
    - ii. Human herpesvirus-8 (HHV-8) negative;
    - iii. Prescribed in combination with cyclophosphamide and prednisone;
  - b. As subsequent therapy for disease that has progressed following treatment of relapsed/refractory or progressive disease (*see Appendix E*);
5. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;
6. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);

7. Request meets one of the following (a or b):\*
  - a. Dose does not exceed 400 mg (2 capsules) per day;
  - 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**

**E. Kaposi Sarcoma (off-label) (must meet all):**

1. Diagnosis of Kaposi sarcoma;
2. Prescribed by or in consultation with an oncologist or immunologist;
3. Age  $\geq$  12 years;
4. If AIDS-related, Thalomid is prescribed in combination with antiretroviral therapy;
5. Member has corticosteroid-refractory immune reconstitution inflammatory syndrome;
6. Failure of liposomal doxorubicin and paclitaxel, unless clinically significant adverse effects are experienced or both are contraindicated;
7. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;
8. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
9. Request meets one of the following (a or b):\*
  - a. Dose does not exceed 400 mg (2 capsules) per day;
  - 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**

**F. Histiocytic Neoplasms (off-label) (must meet all):**

1. Diagnosis of Langerhans cell histiocytosis or Rosai-Dorfman Disease;
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age  $\geq$  12 years;
4. Request is for use as single-agent therapy;
5. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;
6. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
7. Request meets one of the following (a or b):\*
  - a. Dose does not exceed 400 mg (2 capsules) per day;
  - 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**

**G. Aphthous stomatitis or ulcers (AS) (off-label):**

1. Diagnosis of HIV-associated aphthous ulcers or aphthous stomatitis in immunocompetent members;
2. Age  $\geq$  12 years;
3. Failure of a systemic corticosteroid, unless clinically significant adverse effects are experienced, or all are contraindicated;
4. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;

5. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
6. Request meets one of the following (a or b):\*
  - a. Dose does not exceed 100 mg (1 capsules) per day;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

**Approval duration: 6 months**

#### H. 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. All Indications in Section I (must meet all):

1. Currently receiving medication via Centene benefit or documentation supports that member is currently receiving Thalomid for a covered indication and has received this medication for at least 30 days;
2. Member is responding positively to therapy;
3. Thalomid is not prescribed concurrently with Revlimid or Pomalyst;
4. For Thalomid requests, member must use generic thalidomide, if available (e.g., contraindications to excipients);
5. If request is for a dose increase, request meets one of the following (a or b):\*
  - a. New dose does not exceed 400 mg (2 capsules) per day;
  - 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**

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

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.  
**Approval duration: Duration of request or 6 months (whichever is less);** or
2. 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.

## 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 – CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace and CP.PMN.53 for Medicaid, or evidence of coverage documents.

**IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

ENL: erythema nodosum leprosum	EPO: erythropoietin
FDA: Food and Drug Administration	NCCN: National Comprehensive Cancer Network
MCD: multicentric Castleman’s disease	
MM: multiple myeloma	

*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
liposomal doxorubicin (Doxil <sup>®</sup> , Lipodox <sup>®</sup> 50)	Kaposi sarcoma: 20 mg/m <sup>2</sup> IV every 2-3 weeks with a cumulative lifetime dose of 400-450 mg/m <sup>2</sup> due to cardiotoxicity	20 mg/m <sup>2</sup> /dose
paclitaxel	Kaposi sarcoma: 135 mg/m <sup>2</sup> IV every 3 weeks or 100 mg/m <sup>2</sup> IV every 2 weeks	See regimen
prednisone	20 to 40 mg PO QD for four to seven days	See regimen

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

*Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): pregnancy; hypersensitivity
- Boxed warning(s): embryo-fetal toxicity and venous thromboembolism

*Appendix D: General Information*

- Thalomid is only available under a restricted distribution program called the Thalomid REMS program due to a black box warning for embryo-fetal toxicity. Patient and physician enrollment in the manufacturer's REMS program is required.

*Appendix E: Initial Treatment for Relapsed or Progressive MCD per NCCN*

- Single-agent therapies of etoposide, vinblastine, liposomal doxorubicin; or
- Combination therapy of CHOP (cyclophosphamide, doxorubicin, vincristine, and prednisone) ± rituximab, CVAD (cyclophosphamide, vincristine, doxorubicin, and dexamethasone) ± rituximab, CVP (cyclophosphamide, vincristine, and prednisone) ± rituximab, or liposomal doxorubicin ± rituximab

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
MM	200 mg PO QD	200 mg/day
ENL	100 to 300 mg PO QD	400 mg/day

**VI. Product Availability**

Capsules: 50 mg, 100 mg, 150 mg, 200 mg

**VII. References**

1. Thalomid Prescribing Information. Summit, NJ: Celgene Corporation; February 2021. Available at <http://media.celgene.com/content/uploads/thalomid-pi.pdf>. Accessed February 16, 2022.
2. Thalidomide. In: National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at [www.nccn.org](http://www.nccn.org). Accessed February 16, 2022.
3. Multiple Myeloma (Version 4.2022). In: National Comprehensive Cancer Network Guidelines. Available at [www.nccn.org](http://www.nccn.org). Accessed February 16, 2022.
4. Kaposi Sarcoma (Version 1.2022). In: National Comprehensive Cancer Network Guidelines. Available at [www.nccn.org](http://www.nccn.org). Accessed February 16, 2022.
5. B-cell Lymphomas (Version 5.2021). In: National Comprehensive Cancer Network Guidelines. Available at [www.nccn.org](http://www.nccn.org). Accessed February 16, 2022.
6. Myeloproliferative Neoplasms (Version 2.2021). In: National Comprehensive Cancer Network Guidelines. Available at [www.nccn.org](http://www.nccn.org). Accessed February 16, 2022.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
2Q 2018 annual review: added HIM line of business; added prescriber and age requirements; removed off label indication for systemic light chain amyloidosis that is no longer included in NCCN Compendium; added off-label use for Kaposi Sarcoma; summarized NCCN and FDA approved uses for improved clarity; added specialist involvement in care; references reviewed and updated.	01.22.18	05.18
2Q 2019 annual review: added Commercial line of business; myeloproliferative neoplasms – removed requirement for use in combination with prednisone to align with NCCN compendium; removed Waldenstrom macroglobulinemia/lymphoplasmacytic lymphoma criteria set as this indication is no longer supported by NCCN compendium; references reviewed and updated.	02.04.19	05.19
2Q 2020 annual review: added NCCN compendium-supported indication of active idiopathic MCD in section I.D.; references reviewed and updated.	02.15.20	05.20
AIDS-related KS: specified that the liposomal form of doxorubicin should be tried; added bypass of trial requirements if member is intolerant or contraindicated.	06.29.20	11.20
2Q 2021 annual review: added hematology specialist option to MM and myeloproliferative neoplasm indications; removed “hyaline vascular histology” requirement from MCD to align with NCCN removal; added criteria for corticosteroid-refractory immune reconstitution inflammatory syndrome in Kaposi sarcoma per NCCN; references for HIM line of business off-label use revised from HIM.PHAR.21 to HIM.PA.154; references reviewed and updated.	02.19.21	05.21
Added requirement for no concurrent use with Revlimid or Pomalyst since all are thalidomide analogs.	06.29.21	08.21

Reviews, Revisions, and Approvals	Date	P&T Approval Date
2Q 2022 annual review: added language for oral oncology generic redirection if available per template; for myeloproliferative neoplasms added notation that Retacrit is the preferred ESA; per NCCN modified KS requirements to allow use in non-AIDs related KS, added off-label criteria set for histiocytic neoplasms; WCG.CP.PHAR.78 to be retired and approval durations consolidated to 6 months initial and 12 months for continuation of therapy; added off-label use for aphthous stomatitis or ulcers per previous coverage in WCG policy; references reviewed and updated.	02.16.22	05.22

**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.

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**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.

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