

## **Clinical Policy: Itraconazole (Sporanox, Tolsura)**

Reference Number: CP.PMN.124

Effective Date: 11.01.06

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**

Itraconazole (Sporanox<sup>®</sup>, Tolsura<sup>®</sup>) is an azole antifungal agent.

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

Sporanox and Tolsura capsules are indicated in:

- Immunocompromised and non-immunocompromised patients for the treatment of:
  - Blastomycosis, pulmonary and extrapulmonary
  - Histoplasmosis, including chronic cavitary pulmonary disease and disseminated, nonmeningeal histoplasmosis
  - Aspergillosis, pulmonary and extrapulmonary, in patients who are intolerant of or who are refractory to amphotericin B therapy

Sporanox capsules are additionally indicated in:

- Non-immunocompromised patients for the treatment of:
  - Onychomycosis of the toenail, with or without fingernail involvement, due to dermatophytes (tinea unguium)
  - Onychomycosis of the fingernail due to dermatophytes (tinea unguium)

Sporanox oral solution is indicated for the treatment of oropharyngeal and esophageal candidiasis.

Limitation(s) of use: Tolsura is not indicated for the treatment of onychomycosis. Tolsura is not interchangeable or substitutable with other itraconazole products.

### **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 Sporanox and Tolsura are **medically necessary** when the following criteria are met:

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

##### **A. Onychomycosis (must meet all):**

1. Diagnosis of onychomycosis;
2. Request is for Sporanox or itraconazole capsules;
3. If request is for brand Sporanox, member must use generic itraconazole capsules, unless contraindicated or clinically significant adverse effects are experienced;

4. Member meets one of the following (a or b):
  - a. For fingernail disease: Failure of a 6-week trial of oral terbinafine at 250 mg per day, unless contraindicated or clinically significant adverse effects are experienced;
  - b. For toenail disease: Failure of a 12-week trial of oral terbinafine at 250 mg per day, unless contraindicated or clinically significant adverse effects are experienced;
5. Dose does not exceed 400 mg (4 capsules) per day.

**Approval duration: Fingernail disease: 2 months; toenail disease: 3 months**

**B. Oropharyngeal Candidiasis (must meet all):**

1. Diagnosis of oropharyngeal candidiasis;
2. Request is for Sporanox or itraconazole oral solution;
3. If request is for brand Sporanox, member must use generic itraconazole oral solution, unless contraindicated or clinically significant adverse effects are experienced;
4. Failure of a 14-day trial of nystatin suspension or clotrimazole troches/lozenges, unless clinically significant adverse effects are experienced or both are contraindicated;
5. Failure of a 14-day trial of fluconazole, unless contraindicated or clinically significant adverse effects are experienced;
6. Dose does not exceed 200 mg (20 mL) per day.

**Approval duration: 4 weeks**

**C. Esophageal Candidiasis (must meet all):**

1. Diagnosis of esophageal candidiasis;
2. Request is for Sporanox or itraconazole oral solution;
3. If request is for brand Sporanox, member must use generic itraconazole oral solution, unless contraindicated or clinically significant adverse effects are experienced;
4. Failure of a 21-day trial of fluconazole at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
5. Dose does not exceed 200 mg (20 mL) per day.

**Approval duration: 4 weeks**

**D. Aspergillosis (must meet all):**

1. Diagnosis of aspergillosis;
2. Request is for Sporanox, Tolsura, or itraconazole capsules;
3. If request is for brand Sporanox or Tolsura, member must use generic itraconazole capsules, unless contraindicated or clinically significant adverse effects are experienced;
4. Failure of a 3-month trial of voriconazole at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;  
*\*Prior authorization may be required for voriconazole*
5. Dose does not exceed one of the following (a or b):
  - a. Itraconazole or Sporanox capsules: 400 mg (4 capsules) per day;
  - b. Tolsura capsules: 260 mg (4 capsules) per day.

**Approval duration: 3 months**

**E. Blastomycosis or Histoplasmosis (must meet all):**

1. Diagnosis of blastomycosis or histoplasmosis;
2. Request is for Sporanox, Tolsura, or itraconazole capsules;
3. If request is for brand Sporanox or Tolsura, member must use generic itraconazole capsules, unless contraindicated or clinically significant adverse effects are experienced;
4. Dose does not exceed one of the following (a or b):
  - a. Itraconazole or Sporanox capsules: 400 mg (4 capsules) per day;
  - b. Tolsura capsules: 260 mg (4 capsules) per day.

**Approval duration: Blastomycosis: 6 months; Histoplasmosis: 6 weeks**

**F. Hematologic Malignancy (off-label) (must meet all):**

1. Diagnosis of hematologic malignancy;
2. Member must use generic itraconazole capsules or oral solution, unless contraindicated or clinically significant adverse effects are experienced;
3. Member meets one of the following (a or b):
  - a. Request is for prophylaxis of aspergillosis;
  - b. Request is for prophylaxis of candidiasis, and member has failed fluconazole at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
4. Dose does not exceed one of the following (a, b, or c):
  - a. Itraconazole or Sporanox capsules: 400 mg (4 capsules) per day;
  - b. Itraconazole or Sporanox oral solution: 200 mg (20 mL) per day;
  - c. Tolsura capsules: 260 mg (4 capsules) per day.

**Approval duration: 3 months**

**G. Coccidioidomycosis (off-label) (must meet all):**

1. Diagnosis of coccidioidomycosis infection, and member is infected with one of the following (a, b, or c):
  - a. HIV-1, and member has peripheral blood CD4 < 250 cells/mm<sup>3</sup>;
  - b. Focal pulmonary disease;
  - c. Disseminated extrathoracic nonmeningeal or meningeal coccidioidomycosis;
2. Request is for Sporanox or itraconazole capsules or oral solution;
3. If request is for brand Sporanox, member must use generic itraconazole capsules or oral solution, unless contraindicated or clinically significant adverse effects are experienced;
4. Prescribed by or in consultation with an infectious disease specialist, pulmonologist, or HIV specialist;
5. Failure of fluconazole at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
6. Dose does not exceed one of the following (a, b, or c):
  - a. For disseminated extrathoracic nonmeningeal or meningeal coccidioidomycosis (i or ii):
    - i. Capsules: 600 mg (6 capsules) per day;
    - ii. Oral solution: 600 mg (60 mL) per day;
  - b. For coccidioidomycosis with HIV-1 co-infection (i or ii):

- i. Capsules: 600 mg (6 capsules) per day for the first three days, then 400 mg (4 capsules) per day thereafter;
- ii. Oral solution: 600 mg (60 mL) per day for the first three days, then 400 mg (40 mL) per day thereafter;
- c. For all other coccidioidomycosis infections (i or ii):
  - i. Capsules: 400 mg (4 capsules) per day;
  - ii. Oral solution: 400 mg (40 mL) per day.

**Approval duration: 6 months**

**H. Sporotrichosis (off-label) (must meet all):**

1. Diagnosis of sporotrichosis infection, and member is infected with one of the following (a or b):
  - a. Lymphocutaneous, cutaneous, non-severe pulmonary or osteoarticular sporotrichosis;
  - b. Severe pulmonary, meningeal, or disseminated systemic sporotrichosis;
2. Request is for Sporanox or itraconazole capsules or oral solution;
3. If request is for brand Sporanox, member must use generic itraconazole capsules or oral solution, unless contraindicated or clinically significant adverse effects are experienced;
4. Prescribed by or in consultation with an infectious disease specialist or pulmonologist;
5. For severe pulmonary, meningeal, or disseminated systemic sporotrichosis: Previous use of amphotericin B, unless contraindicated or clinically significant adverse effects are experienced;
6. Dose does not exceed one of the following (a or b):
  - a. Capsules: 400 mg (4 capsules) per day;
  - b. Oral solution: 400 mg (40 mL) per day.

**Approval duration: 12 months**

**I. 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. Onychomycosis (must meet all):**

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member is responding positively to therapy;
3. Request is for Sporanox or itraconazole capsules;
4. If request is for brand Sporanox, member must use generic itraconazole capsules, unless contraindicated or clinically significant adverse effects are experienced;
5. Member has not received more than 90 days of treatment;
6. If request is for a dose increase, new dose does not exceed 400 mg (4 capsules) per day.

**Approval duration: Fingernail disease: up to 2 months total; toenail disease: up to 3 months total**

**B. Oropharyngeal/Esophageal Candidiasis (must meet all):**

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member is responding positively to therapy;
3. Request is for Sporanox or itraconazole oral solution;
4. If request is for brand Sporanox, member must use generic itraconazole oral solution, unless contraindicated or clinically significant adverse effects are experienced;
5. If request is for a dose increase, new dose does not exceed 200 mg (20 mL) per day.

**Approval duration: 2 weeks**

**C. Blastomycosis, Histoplasmosis, or Aspergillosis (must meet all):**

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member is responding positively to therapy;
3. Request is for Sporanox, Tolsura, or itraconazole capsules;
4. If request is for brand Sporanox, member must use generic itraconazole capsules, unless contraindicated or clinically significant adverse effects are experienced;
5. If request is for a dose increase, new dose does not exceed one of the following (a or b):
  - a. Itraconazole or Sporanox capsules: 400 mg (4 capsules) per day;
  - b. Tolsura capsules: 260 mg (4 capsules) per day.

**Approval duration: Blastomycosis: 6 months; Histoplasmosis: 6 weeks; Aspergillosis: 3 months**

**D. Hematologic Malignancy (off-label) (must meet all):**

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member must use generic itraconazole capsules or oral solution, unless contraindicated or clinically significant adverse effects are experienced;
3. Member is responding positively to therapy;
4. If request is for a dose increase, new dose does not exceed one of the following (a, b, or c):
  - a. Itraconazole or Sporanox capsules: 400 mg (4 capsules) per day;
  - b. Itraconazole or Sporanox oral solution: 200 mg (20 mL) per day;
  - c. Tolsura capsules: 260 mg (4 capsules) per day.

**Approval duration: 6 months**

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

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Request is for Sporanox or itraconazole capsules or oral solution;

3. If request is for brand Sporanox, member must use generic itraconazole capsules or oral solution, unless contraindicated or clinically significant adverse effects are experienced;
4. If HIV-1 positive, member has peripheral blood CD4 < 250 cells/mm<sup>3</sup>;
5. If request is for a dose increase, new dose does not exceed one of the following (a or b):
  - a. For disseminated extrathoracic nonmeningeal or meningeal coccidioidomycosis (i or ii):
    - i. Capsules: 600 mg (6 capsules) per day;
    - ii. Oral solution: 600 mg (60 mL) per day;
  - b. For all other coccidioidomycosis infections (i or ii):
    - i. Capsules: 400 mg (4 capsules) per day;
    - ii. Oral solution: 400 mg (40 mL) per day.

**Approval duration: 12 months**

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

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Request is for Sporanox or itraconazole capsules or oral solution;
3. If request is for brand Sporanox, member must use generic itraconazole capsules or oral solution, unless contraindicated or clinically significant adverse effects are experienced;
4. If request is for a dose increase, new dose does not exceed one of the following (a or b):
  - a. Capsules: 400 mg (4 capsules) per day;
  - b. Oral solution: 400 mg (40 mL) per day.

**Approval duration: 12 months**

**G. 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*

CHF: congestive heart failure

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.*

<b>Drug Name</b>	<b>Dosing Regimen</b>	<b>Dose Limit/ Maximum Dose</b>
terbinafine (Lamisil <sup>®</sup> )	250 mg PO QD	500 mg per day
nystatin suspension	400,000 to 600,000 units (4 to 6 mL) per dose swished in the mouth QID	2.4 million units per day
clotrimazole troches/ lozenges (Mycelex <sup>®</sup> )	10 mg troche PO 5 times daily for 14 days	Varies
fluconazole (Diflucan <sup>®</sup> )	400 mg PO per day	800 mg per day
voriconazole (Vfend <sup>®</sup> )	Weight ≥ 40 kg: 200 mg PO every 12 hours Weight < 40 kg: 100 mg PO every 12 hours	Weight ≥ 40 kg: 800 mg per day Weight < 40 kg: 400 mg per day
amphotericin B	Adults: 0.7 to 1 mg/kg/dose IV every 24 hours until favorable response. Continue step-down therapy with itraconazole to complete a total of at least 12 months of therapy	1 – 1.5 mg/kg/day IV

*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):
  - Itraconazole should not be administered for the treatment of onychomycosis in patients with evidence of ventricular dysfunction such as congestive heart failure (CHF) or a history of CHF.
  - Concomitant coadministration of itraconazole with the following drugs: methadone, dofetilide, quinidine, ergot alkaloids (such as dihydroergotamine, ergometrine (ergonovine), ergotamine, methylergometrine (methylergonovine)), felodipine, pimozide, oral midazolam, triazolam, nisoldipine, cisapride, lovastatin, simvastatin.
  - Additional product-specific drug-drug interactions include:
    - Sporanox (capsules and oral solution), Tolsura: disopyramide, dronedarone, irinotecan, lurasidone, ivabradine, ranolazine, eplerenone, ticagrelor and, in subjects with varying degrees of renal or hepatic impairment, colchicine, fesoterodine, and solifenacin.
    - Sporanox capsules: telithromycin
    - Sporanox oral solution, Tolsura: isavuconazole, naloxegol, lomitapide, avanafil
  - Pregnancy, or women contemplating pregnancy
  - Hypersensitivity and anaphylaxis to itraconazole

- Boxed warning(s):
  - CHF or history of CHF (see contraindications)
  - Drug-drug interactions (see contraindications)

**V. Dosage and Administration**

Drug Name	Indication	Dosing Regimen	Maximum Dose
Itraconazole (Sporanox) capsule	Blastomycosis	200 mg PO QD	400 mg/day
	Histoplasmosis	200 mg PO QD	400 mg/day
	Aspergillosis	200 to 400 mg PO QD	400 mg/day
	Onychomycosis	200 mg PO QD (toenails with or without fingernail involvement)  200 mg PO BID for 1 week, followed by no drug for 3 weeks, then another week of 200 mg PO BID or 200 mg PO QD for 6 weeks (fingernails only)	400 mg/day
	Coccidioidomycosis	200 mg PO BID or 200 mg BID-TID for nonmeningeal or meningeal coccidioidomycosis  In patients co-infected with HIV: Adults: 200 mg PO TID for the first 3 days, then 200 mg PO BID Pediatrics: 5-10 mg/kg PO BID for the first 3 days, then 2-5 mg/kg PO BID	600 mg/day
	Lymphocutaneous or cutaneous sporotrichosis	200 mg PO QD for 3-6 months. If no response then increase to 200 mg PO BID.	400 mg/day
	Osteoarticular, pulmonary, meningeal, or disseminated systemic sporotrichosis	200 mg PO BID for at least 12 months	400 mg/day
In life-threatening situations	Loading dose of 200 mg PO TID given for the first 3 days of treatment	600 mg/day	
Itraconazole (Sporanox) oral solution	Oropharyngeal candidiasis	200 mg (20 mL) PO daily for 1 to 2 weeks; swish in the mouth (10 mL at a time) for several seconds and swallow	200 mg (20 mL)/day
	Coccidioidomycosis	200 mg (20 mL) PO BID or 200 mg (20 mL) BID-TID for nonmeningeal or meningeal coccidioidomycosis	600 mg (60 mL)/day



Drug Name	Indication	Dosing Regimen	Maximum Dose
		In patients co-infected with HIV: Adults: 200 mg PO TID for the first 3 days, then 200 mg PO BID Pediatrics: 5-10 mg/kg PO BID for the first 3 days, then 2-5 mg/kg PO BID	
	Lymphocutaneous or cutaneous sporotrichosis	200 mg (20 mL) PO QD for 3-6 months. If no response then increase to 200 mg PO BID.	400 mg (40 mL)/day
	Osteoarticular, pulmonary, meningeal, or disseminated systemic sporotrichosis	200 mg (20 mL) PO BID for at least 12 months	400 mg (40 mL)/day
	Esophageal candidiasis	100 mg (10 mL) PO daily for a minimum treatment of three weeks	200 mg (20 mL)/day
Itraconazole (Tolsura)	Blastomycosis, histoplasmosis	130 mg PO QD. Increase dose if no obvious improvement or evidence of progressive fungal disease in 65 mg increments. Doses above 130 mg/day should be given in divided doses.	260 mg/day
	Aspergillosis	130 mg PO QD or BID	260 mg/day

#### VI. Product Availability

Drug Name	Availability
Itraconazole (Sporanox)	Capsule: 100 mg Oral solution: 10 mg/mL
Itraconazole (Tolsura)	Capsule: 65 mg

#### VII. References

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11. Panel on Opportunistic Infections in HIV-Infected Adults and Adolescents. Guidelines for the prevention and treatment of opportunistic infections in HIV-infected adults and adolescents: recommendations from the Centers for Disease Control and Prevention, the National Institutes of Health, and the HIV Medicine Association of the Infectious Diseases Society of America. Available at: <https://clinicalinfo.hiv.gov/en/guidelines/adult-and-adolescent-opportunistic-infection/whats-new-guidelines>. Updated November 18, 2021. Accessed January 26, 2022.
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Reviews, Revisions, and Approvals	Date	P&T Approval Date
2Q 2018 annual review: policies combined for Medicaid, Commercial, and HIM; added Onmel to policy; added age; added 3 months trial of voriconazole for aspergillosis per IDSA; added criteria for hematologic malignancy; references reviewed and updated.	02.06.18	05.18
2Q 2019 annual review: no significant changes; removed age requirement due to lack of age restriction in guidelines; corrected dosing typo in continued therapy section for blastomycosis, histoplasmosis, and aspergillosis; references reviewed and updated.	02.26.19	05.19
For blastomycosis, histoplasmosis, aspergillosis, and hematologic malignancy added Tolsura to criteria requiring medical justification that supports inability to use generic itraconazole capsules per SDC and prior clinical guidance.	12.02.19	
2Q 2020 annual review: added criteria for Coccidioidomycosis infection (off-label); references reviewed and updated.	04.07.20	05.20
Added criteria for Sporotrichosis infection (off-label); added requirement for use of generic itraconazole capsules or oral solution; updated Appendix B; updated dosage and administration; references reviewed and updated.	05.21.20	08.20
2Q 2021 annual review: no significant changes; removed Onmel from policy since it is no longer available (MediSpan obsolete date of August 2020); removed references to HIM.PA.103; clarified the specific agents that should be used if the preferred generic is unable to be used; revised “medical justification” to “must use” language; references to HIM.PHAR.21 revised to HIM.PA.154; references reviewed and updated.	01.12.21	05.21
2Q 2022 annual review: no significant changes; updated max dosing for coccidioidomycosis infection per compendia, including addition of HIV-specific dosing; references reviewed and updated.	01.25.22	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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